



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAI 55-East Frontage Road, Southwest of Black Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

East Frontage Road (Westbound) IDOT STA 247+30 to 251+00 (ISGS Site 3008-1)

City: Joliet State: IL Zip Code: 60404

County: Will Township: Joliet

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.53589 Longitude: -88.17957

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAI 55-East Frontage Road, Southwest of Black R

Latitude: 41.53589 Longitude: -88.17957

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Soil from borings B02, B03, and B04 were sampled adjacent to ISGS Site No 3008-1. See Exhibits 2, 2A, and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J124772-1. Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

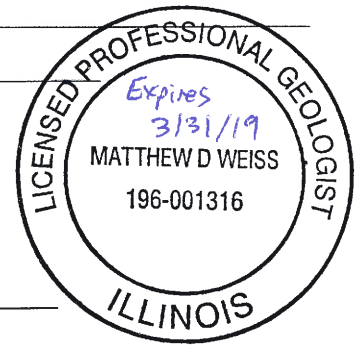
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 135 Ambassador Drive
 City: Naperville State: IL Zip Code: 60540
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

[Signature]
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

4/13/17
 Date:



Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-1)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-1-B02 (0-5)	3008-1-B02 (5-9)	3008-1-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(5-9)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Semivolatile Organic Analytical Parameters								
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.01	<0.035	<0.035
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.037	<0.035	0.035
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.045	<0.035	0.039
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.03	0.021	0.031
Chrysene	mg/kg	1.2	2.7	88		0.012	<0.035	<0.035
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.03	<0.035	0.03
Fluoranthene	mg/kg	2.7	4.1	3100		0.018	<0.035	0.011
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.034	<0.035	0.034
Pyrene	mg/kg	1.9	3.0	2300		0.015	<0.035	0.01
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.18	0.072	<0.18
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		4	4.2	2.3
Barium	mg/kg	---	110	1500		31	5	17
Cadmium	mg/kg	---	0.6	5.2		0.13	0.054	0.052
Chromium, total	mg/kg	---	16.2	21		6.7	3.4	4.5
Lead	mg/kg	---	36	107		7.6	6.2	3.5
Mercury	mg/kg	---	0.06	0.1		0.029	<0.016	0.019
Selenium	mg/kg	---	0.48	1.3		0.57	0.49	<0.51
Silver	mg/kg	---	0.55	4.4		<0.26	<0.26	<0.25
Antimony	mg/kg	---	4.0	5		0.28	0.33	0.35
Beryllium	mg/kg	---	0.59	22		0.26	0.14	0.23
Calcium	mg/kg	---	9,300	---		180000	210000	220000
Cobalt	mg/kg	---	8.9	20		4.5	2.5	2.6
Copper	mg/kg	---	19.6	2900		8	6.9	3.9
Cyanide	mg/kg	---	0.51	---		<0.42	<0.43	<0.51
Iron	mg/kg	---	15,900	15000		8600	5400	4700
Magnesium	mg/kg	---	4,820	325000		110000	130000	140000
Manganese	mg/kg	---	636	630		390	200	310
Nickel	mg/kg	---	18	100		9.8	5.6	5.2
Potassium	mg/kg	---	1,268	---		680	370	590
Sodium	mg/kg	---	130	---		310	190	200
Thallium	mg/kg	---	0.32	2.6		<0.52	<0.52	<0.51
Vanadium	mg/kg	---	25.2	550		11	4.7	6
Zinc	mg/kg	---	95	5100		25	20	12
pH			6.25	9		8.8	8.6	8.4

Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-1)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-1-B02 (0-5)	3008-1-B02 (5-9)	3008-1-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(5-9)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.31	<0.025	0.017
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.38	0.081	0.21
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		290	450	300
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	0.01
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	0.2	<0.40
Magnesium,TCLP	mg/L	---	---	---		150	110	140
Manganese,TCLP	mg/L	---	---	---		0.65	1.1	2
Nickel,TCLP	mg/L	---	---	---		<0.025	0.012	0.017
Potassium,TCLP	mg/L	---	---	---		1	1.2	0.95
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	<0.50	<0.50

Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-1)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-1-B03 (5-7)	3008-1-B04 (0-5)	3008-1-B04 (5-7)
				CCDD	Sample Depth (feet)	(5-7)	(0-5)	(5-7)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Semivolatile Organic Analytical Parameters								
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	<0.034	<0.035
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.024	<0.035
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.024	<0.035
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.022	0.021	<0.035
Chrysene	mg/kg	1.2	2.7	88		<0.037	<0.034	<0.035
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	<0.034	<0.035
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	<0.034	<0.035
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	<0.034	<0.035
Pyrene	mg/kg	1.9	3.0	2300		<0.037	<0.034	<0.035
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.19	<0.17	<0.18
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		5	3.6	5.8
Barium	mg/kg	---	110	1500		8.1	15	9.3
Cadmium	mg/kg	---	0.6	5.2		0.11	0.11	0.18
Chromium, total	mg/kg	---	16.2	21		4.9	3.5	4.9
Lead	mg/kg	---	36	107		4.6	9	8.2
Mercury	mg/kg	---	0.06	0.1		<0.017	0.032	0.02
Selenium	mg/kg	---	0.48	1.3		<0.53	<0.49	<0.53
Silver	mg/kg	---	0.55	4.4		<0.26	<0.25	<0.26
Antimony	mg/kg	---	4.0	5		0.55	0.25	0.48
Beryllium	mg/kg	---	0.59	22		0.13	0.15	0.17
Calcium	mg/kg	---	9,300	---		150000	250000	180000
Cobalt	mg/kg	---	8.9	20		3.6	2.7	5.4
Copper	mg/kg	---	19.6	2900		11	6.7	14
Cyanide	mg/kg	---	0.51	---		<0.45	<0.49	<0.51
Iron	mg/kg	---	15,900	15000		7900	5000	9300
Magnesium	mg/kg	---	4,820	325000		89000	160000	97000
Manganese	mg/kg	---	636	630		240	300	380
Nickel	mg/kg	---	18	100		9.4	6	10
Potassium	mg/kg	---	1,268	---		480	420	440
Sodium	mg/kg	---	130	---		180	210	190
Thallium	mg/kg	---	0.32	2.6		<0.53	<0.49	<0.53
Vanadium	mg/kg	---	25.2	550		6.9	5.2	7
Zinc	mg/kg	---	95	5100		33	19	49
pH			6.25	9		8.6	8.3	8.4

Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-1)
Joliet, Will County, IL
Terracon Project No. 11167058H
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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-1-B03 (5-7)	3008-1-B04 (0-5)	3008-1-B04 (5-7)
				CCDD	Sample Depth (feet)	(5-7)	(0-5)	(5-7)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		<0.025	0.051	<0.025
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.078	0.25	0.089
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		410	360	470
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	0.2	0.22
Magnesium,TCLP	mg/L	---	---	---		110	140	81
Manganese,TCLP	mg/L	---	---	---		1.1	1.1	1
Nickel,TCLP	mg/L	---	---	---		0.012	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.1	0.78	1.4
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	<0.50	<0.50

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-124772-1
Client Project/Site: IDOT - Joliet - WO 24

For:
Terracon Consulting Eng & Scientists
135 Ambassador Drive
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:
3/17/2017 8:20:24 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Job ID: 500-124772-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-124772-1

Comments

No additional comments.

Receipt

The samples were received on 3/7/2017 5:24 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.4° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for 375574 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: 3008-1-G01 (500-124772-10).

The sample was analyzed within 7 days per EPA recommendation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-375241 recovered outside control limits for 9 analytes. The % recoveries were within limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-375147 and analytical batch 500-375399 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The continuing calibration blanks (CCB) contained Iron above the reporting limit (RL). The samples 3008-1-B04 (5-7) (500-124772-9) and (500-124772-E-21-K) associated with this CCB did not contain the target compound; therefore, re-analysis of samples was not performed.

Method(s) 6020A: The initial calibration verification low level (ICVL) result for batch 500-375536 was above the upper control limit for Be. The samples associated with the ICVL were bracketed by CCVL that were within control limits. Also, the MB and LCS were also within control limits. The samples were reported.

Method(s) 6020A: The continuing calibration verifications (CCV) associated with batch 500-375684 recovered above the upper control limit for Antimony and Thallium. The associated low level CCVs were within control limits. The samples associated with these CCVs were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 3008-1-B01 (0-5) (500-124772-1), 3008-1-B01 (0-5) Dup (500-124772-2), 3008-1-B01 (5-7) (500-124772-3), 3008-1-B02 (0-5) (500-124772-4), 3008-1-B02 (5-9) (500-124772-5), 3008-1-B03 (0-5) (500-124772-6), 3008-1-B03 (5-7) (500-124772-7), 3008-1-B04 (0-5) (500-124772-8), 3008-1-B04 (5-7) (500-124772-9) and (500-124772-E-21-K).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Job ID: 500-124772-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5)

Lab Sample ID: 500-124772-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.030	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.032	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0075	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.030	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0057	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.7	F1	0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	92	F1	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54	F1	0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	F1	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	F1 B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	14	F1	0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	18	F1 F2	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	600		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0	F1	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20	F1	0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	48	F1	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	810	F1 B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	800	F1 B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J F1	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B01 (0-5) Dup

Lab Sample ID: 500-124772-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.030	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.033	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0090	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.030	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0072	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0085	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	79		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5) Dup (Continued)

Lab Sample ID: 500-124772-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	11	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	82000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	980		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.94		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	870	B	30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	780	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.32	J B	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.029	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B01 (5-7)

Lab Sample ID: 500-124772-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.028	J	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.031	J	0.034	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.028	J	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.034	0.0088	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.6		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	10		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.16	J	0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.074	J	0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.7	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.1		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	4.6		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	5400		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	2.7		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	87000	B	51	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	140000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	230		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.0		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	5.5		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (5-7) (Continued)

Lab Sample ID: 500-124772-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	14		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	330	B	25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	220	B	51	6.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.010	J	0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B02 (0-5)

Lab Sample ID: 500-124772-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.010	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.045		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.018	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.0		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.26		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	6.7	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.5		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	8.0		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	8600		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	7.6		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	110000	B	52	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	180000	B	100	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.8		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	25		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	680	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	310	B	52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.65		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (0-5) (Continued)

Lab Sample ID: 500-124772-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B02 (5-9)

Lab Sample ID: 500-124772-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.021	J	0.035	0.011	mg/Kg	1	*	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.072	J	0.18	0.065	mg/Kg	1	*	8270D	Total/NA
Antimony	0.33	J	1.0	0.22	mg/Kg	1	*	6010B	Total/NA
Arsenic	4.2		0.52	0.24	mg/Kg	1	*	6010B	Total/NA
Barium	5.0		0.52	0.096	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.14	J	0.21	0.045	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.054	J	0.10	0.030	mg/Kg	1	*	6010B	Total/NA
Chromium	3.4	B	0.52	0.090	mg/Kg	1	*	6010B	Total/NA
Cobalt	2.5		0.26	0.059	mg/Kg	1	*	6010B	Total/NA
Copper	6.9		0.52	0.11	mg/Kg	1	*	6010B	Total/NA
Iron	5400		10	4.0	mg/Kg	1	*	6010B	Total/NA
Lead	6.2		0.26	0.13	mg/Kg	1	*	6010B	Total/NA
Magnesium	130000	B	52	21	mg/Kg	10	*	6010B	Total/NA
Calcium	210000	B	100	34	mg/Kg	10	*	6010B	Total/NA
Manganese	200		0.52	0.10	mg/Kg	1	*	6010B	Total/NA
Nickel	5.6		0.52	0.14	mg/Kg	1	*	6010B	Total/NA
Selenium	0.49	J	0.52	0.26	mg/Kg	1	*	6010B	Total/NA
Vanadium	4.7		0.26	0.076	mg/Kg	1	*	6010B	Total/NA
Zinc	20		1.0	0.33	mg/Kg	1	*	6010B	Total/NA
Potassium	370	B	26	4.3	mg/Kg	1	*	6010B	Total/NA
Sodium	190	B	52	6.9	mg/Kg	1	*	6010B	Total/NA
Barium	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.20	J B	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B03 (0-5)

Lab Sample ID: 500-124772-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.035		0.035	0.0069	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.039		0.035	0.0077	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.031	J	0.035	0.011	mg/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.035	0.0069	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.011	J	0.035	0.0066	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.035	0.0092	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.010	J	0.035	0.0071	mg/Kg	1	*	8270D	Total/NA
Antimony	0.35	J	1.0	0.21	mg/Kg	1	*	6010B	Total/NA
Arsenic	2.3		0.51	0.24	mg/Kg	1	*	6010B	Total/NA
Barium	17		0.51	0.093	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.23		0.20	0.044	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.052	J	0.10	0.030	mg/Kg	1	*	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (0-5) (Continued)

Lab Sample ID: 500-124772-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	4.5	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.6		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	3.9		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	4700		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	3.5		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	140000	B	51	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	220000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	5.2		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	6.0		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	12		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	590	B	25	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	200	B	51	6.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.95	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.016	0.0082	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B03 (5-7)

Lab Sample ID: 500-124772-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzof[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	8.1		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.13	J	0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.9	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.6		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	7900		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	4.6		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	89000	B	53	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	150000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	240		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.4		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	6.9		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	480	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	180	B	53	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.078	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (5-7) (Continued)

Lab Sample ID: 500-124772-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J	2.5	0.50	mg/L	1		6010B	TCLP
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B04 (0-5)

Lab Sample ID: 500-124772-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.024	J	0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.024	J	0.034	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	0.99	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.6		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	15		0.49	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.15	J	0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.099	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	3.5	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.7		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	6.7		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	5000		9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	9.0		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	160000	B	49	20	mg/Kg	10	☼	6010B	Total/NA
Calcium	250000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Manganese	300		0.49	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.0		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Vanadium	5.2		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	19		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	420	B	25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	49	6.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.20	J B	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.78	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-B04 (5-7)

Lab Sample ID: 500-124772-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.48	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	9.3		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.17	J	0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.9	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	9300		11	4.1	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (5-7) (Continued)

Lab Sample ID: 500-124772-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.2		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	97000	B	53	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	180000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	7.0		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	440	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	190	B	53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.089	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.22	J B ^	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.020		0.016	0.0086	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-1-G01

Lab Sample ID: 500-124772-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00068		0.00050	0.00015	mg/L	1		8260B	Total/NA
Antimony	0.0016	J	0.0030	0.0010	mg/L	1		6020A	Total Recoverable
Arsenic	0.042		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.16		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Beryllium	0.00094	J ^	0.0020	0.00047	mg/L	2		6020A	Total Recoverable
Cadmium	0.0017		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	350		0.40	0.21	mg/L	2		6020A	Total Recoverable
Chromium	0.026		0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.030		0.0020	0.00038	mg/L	2		6020A	Total Recoverable
Copper	0.088		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	75		0.20	0.052	mg/L	2		6020A	Total Recoverable
Lead	0.045		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	160		0.40	0.17	mg/L	2		6020A	Total Recoverable
Manganese	1.9		0.0050	0.0020	mg/L	2		6020A	Total Recoverable
Nickel	0.057		0.0040	0.0011	mg/L	2		6020A	Total Recoverable
Potassium	6.4		1.0	0.38	mg/L	2		6020A	Total Recoverable
Selenium	0.0021	J	0.0025	0.00083	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-G01 (Continued)

Lab Sample ID: 500-124772-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	140		0.40	0.18	mg/L	2		6020A	Total Recoverable
Thallium	0.0013	J	0.0020	0.00059	mg/L	1		6020A	Total Recoverable
Vanadium	0.039		0.010	0.0043	mg/L	2		6020A	Total Recoverable
Zinc	0.36		0.040	0.0092	mg/L	2		6020A	Total Recoverable
Mercury	0.00047		0.00020	0.00011	mg/L	1		7470A	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-124772-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-124772-1	3008-1-B01 (0-5)	Solid	03/07/17 11:25	03/07/17 17:24
500-124772-2	3008-1-B01 (0-5) Dup	Solid	03/07/17 11:25	03/07/17 17:24
500-124772-3	3008-1-B01 (5-7)	Solid	03/07/17 11:30	03/07/17 17:24
500-124772-4	3008-1-B02 (0-5)	Solid	03/07/17 11:00	03/07/17 17:24
500-124772-5	3008-1-B02 (5-9)	Solid	03/07/17 11:05	03/07/17 17:24
500-124772-6	3008-1-B03 (0-5)	Solid	03/07/17 10:45	03/07/17 17:24
500-124772-7	3008-1-B03 (5-7)	Solid	03/07/17 10:50	03/07/17 17:24
500-124772-8	3008-1-B04 (0-5)	Solid	03/07/17 10:25	03/07/17 17:24
500-124772-9	3008-1-B04 (5-7)	Solid	03/07/17 10:30	03/07/17 17:24
500-124772-10	3008-1-G01	Water	03/07/17 13:10	03/07/17 17:24
500-124772-11	Trip Blank	Water	03/07/17 00:00	03/07/17 17:24

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5)

Lab Sample ID: 500-124772-1

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	03/08/17 09:19	03/10/17 15:05	1
Dibromofluoromethane	91		75 - 120	03/08/17 09:19	03/10/17 15:05	1
1,2-Dichloroethane-d4 (Surr)	92		69 - 134	03/08/17 09:19	03/10/17 15:05	1
Toluene-d8 (Surr)	87		75 - 123	03/08/17 09:19	03/10/17 15:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5)

Lab Sample ID: 500-124772-1

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.030	J	0.039	0.0076	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Benzo[b]fluoranthene	0.032	J	0.039	0.0085	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Benzo[g,h,i]perylene	0.026	J	0.039	0.013	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
3,3'-Dichlorobenzidine	<0.20	F1	0.20	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,4-Dinitrophenol	<0.79	F1	0.79	0.69	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Fluoranthene	0.0075	J	0.039	0.0073	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.23	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Indeno[1,2,3-cd]pyrene	0.030	J	0.039	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5)

Lab Sample ID: 500-124772-1

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Phenanthrene	0.0057	J	0.039	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		42 - 115	03/08/17 18:45	03/09/17 12:30	1
2-Fluorophenol	94		40 - 130	03/08/17 18:45	03/09/17 12:30	1
Nitrobenzene-d5	74		33 - 124	03/08/17 18:45	03/09/17 12:30	1
Phenol-d5	93		36 - 123	03/08/17 18:45	03/09/17 12:30	1
Terphenyl-d14	85		25 - 150	03/08/17 18:45	03/09/17 12:30	1
2,4,6-Tribromophenol	84		25 - 130	03/08/17 18:45	03/09/17 12:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Arsenic	6.7	F1	0.58	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Barium	92	F1	0.58	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Beryllium	0.54	F1	0.23	0.050	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Cadmium	0.26	F1	0.12	0.034	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Chromium	12	F1 B	0.58	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Cobalt	9.2		0.29	0.066	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Copper	14	F1	0.58	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Iron	16000		12	4.5	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Lead	18	F1 F2	0.29	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Magnesium	19000	B	5.8	2.4	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Calcium	54000	B	120	37	mg/Kg	☼	03/09/17 14:42	03/11/17 21:56	10
Manganese	600		0.58	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Nickel	18		0.58	0.16	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Selenium	1.0	F1	0.58	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Vanadium	20	F1	0.29	0.085	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Zinc	48	F1	1.2	0.37	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Potassium	810	F1 B	29	4.7	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1
Sodium	800	F1 B	58	7.7	mg/Kg	☼	03/09/17 14:42	03/10/17 21:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Barium	0.69		0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5)

Lab Sample ID: 500-124772-1

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Cobalt	0.026		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:00	1
Magnesium	100		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:00	1
Manganese	13		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Nickel	0.019	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Potassium	1.5	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:00	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:00	1
Zinc	0.027	J	0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.36		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 00:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 21:31	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 21:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J F1	0.019	0.0099	mg/Kg	☼	03/10/17 15:00	03/13/17 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/08/17 16:40	03/09/17 16:21	1
pH	7.7		0.2	0.2	SU			03/10/17 18:27	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5) Dup

Lab Sample ID: 500-124772-2

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	03/08/17 09:19	03/09/17 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	03/08/17 09:19	03/09/17 15:02	1
Dibromofluoromethane	89		75 - 120	03/08/17 09:19	03/09/17 15:02	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 134	03/08/17 09:19	03/09/17 15:02	1
Toluene-d8 (Surr)	89		75 - 123	03/08/17 09:19	03/09/17 15:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5) Dup

Lab Sample ID: 500-124772-2

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.030	J	0.038	0.0074	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Benzo[b]fluoranthene	0.033	J	0.038	0.0083	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Benzo[g,h,i]perylene	0.026	J	0.038	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Fluoranthene	0.0090	J	0.038	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Indeno[1,2,3-cd]pyrene	0.030	J	0.038	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5) Dup

Lab Sample ID: 500-124772-2

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Phenanthrene	0.0072	J	0.038	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
Pyrene	0.0085	J	0.038	0.0076	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		42 - 115	03/08/17 18:45	03/09/17 12:05	1
2-Fluorophenol	88		40 - 130	03/08/17 18:45	03/09/17 12:05	1
Nitrobenzene-d5	68		33 - 124	03/08/17 18:45	03/09/17 12:05	1
Phenol-d5	89		36 - 123	03/08/17 18:45	03/09/17 12:05	1
Terphenyl-d14	82		25 - 150	03/08/17 18:45	03/09/17 12:05	1
2,4,6-Tribromophenol	78		25 - 130	03/08/17 18:45	03/09/17 12:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Arsenic	6.9		0.59	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Barium	79		0.59	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Beryllium	0.51		0.24	0.051	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Cadmium	0.33		0.12	0.034	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Chromium	11	B	0.59	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Cobalt	11		0.30	0.067	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Copper	14		0.59	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Iron	15000		12	4.6	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Lead	17		0.30	0.15	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Magnesium	26000	B	5.9	2.4	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Calcium	82000	B	120	38	mg/Kg	☼	03/09/17 14:42	03/11/17 22:21	10
Manganese	980		0.59	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Nickel	20		0.59	0.16	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Selenium	0.94		0.59	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Vanadium	20		0.30	0.086	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Zinc	48		1.2	0.37	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Potassium	870	B	30	4.8	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1
Sodium	780	B	59	7.8	mg/Kg	☼	03/09/17 14:42	03/10/17 21:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Barium	0.56		0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (0-5) Dup

Lab Sample ID: 500-124772-2

Date Collected: 03/07/17 11:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 82.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Cobalt	0.030		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Iron	0.32	J B	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:05	1
Magnesium	110		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:05	1
Manganese	13		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Nickel	0.022	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Potassium	1.5	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:05	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:05	1
Zinc	0.029	J	0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 00:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 21:35	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 21:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0099	mg/Kg	☼	03/10/17 15:00	03/13/17 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/08/17 16:40	03/09/17 16:22	1
pH	7.7		0.2	0.2	SU			03/10/17 18:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (5-7)

Lab Sample ID: 500-124772-3

Date Collected: 03/07/17 11:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	03/08/17 09:19	03/09/17 15:26	1
Dibromofluoromethane	87		75 - 120	03/08/17 09:19	03/09/17 15:26	1
1,2-Dichloroethane-d4 (Surr)	87		69 - 134	03/08/17 09:19	03/09/17 15:26	1
Toluene-d8 (Surr)	89		75 - 123	03/08/17 09:19	03/09/17 15:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (5-7)

Lab Sample ID: 500-124772-3

Date Collected: 03/07/17 11:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.028	J	0.034	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Benzo[b]fluoranthene	0.031	J	0.034	0.0074	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Benzo[g,h,i]perylene	0.023	J	0.034	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Chrysene	<0.034		0.034	0.0093	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Dibenz(a,h)anthracene	0.028	J	0.034	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.27	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,4-Dinitrophenol	<0.69		0.69	0.60	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.034	0.0088	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2-Methylnaphthalene	<0.069		0.069	0.0063	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (5-7)

Lab Sample ID: 500-124772-3

Date Collected: 03/07/17 11:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.69		0.69	0.32	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Phenol	<0.17		0.17	0.076	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
Pyrene	<0.034		0.034	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		42 - 115	03/08/17 18:45	03/09/17 11:15	1
2-Fluorophenol	84		40 - 130	03/08/17 18:45	03/09/17 11:15	1
Nitrobenzene-d5	82		33 - 124	03/08/17 18:45	03/09/17 11:15	1
Phenol-d5	77		36 - 123	03/08/17 18:45	03/09/17 11:15	1
Terphenyl-d14	96		25 - 150	03/08/17 18:45	03/09/17 11:15	1
2,4,6-Tribromophenol	50		25 - 130	03/08/17 18:45	03/09/17 11:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Arsenic	2.6		0.51	0.23	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Barium	10		0.51	0.093	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Beryllium	0.16	J	0.20	0.044	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Cadmium	0.074	J	0.10	0.029	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Chromium	3.7	B	0.51	0.087	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Cobalt	2.1		0.25	0.057	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Copper	4.6		0.51	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Iron	5400		10	3.9	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Lead	2.7		0.25	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Magnesium	87000	B	51	21	mg/Kg	☼	03/09/17 14:42	03/11/17 22:25	10
Calcium	140000	B	100	33	mg/Kg	☼	03/09/17 14:42	03/11/17 22:25	10
Manganese	230		0.51	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Nickel	6.0		0.51	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Selenium	0.43	J	0.51	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Vanadium	5.5		0.25	0.074	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Zinc	14		1.0	0.32	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Potassium	330	B	25	4.1	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1
Sodium	220	B	51	6.7	mg/Kg	☼	03/09/17 14:42	03/10/17 21:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Barium	0.19	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B01 (5-7)

Lab Sample ID: 500-124772-3

Date Collected: 03/07/17 11:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:10	1
Magnesium	170		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:10	1
Manganese	3.0		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Nickel	0.013	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Potassium	1.0	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:10	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:10	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 00:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 21:48	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 21:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0091	mg/Kg	☼	03/10/17 15:00	03/13/17 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	03/08/17 16:40	03/09/17 16:22	1
pH	8.0		0.2	0.2	SU			03/10/17 18:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (0-5)

Lab Sample ID: 500-124772-4

Date Collected: 03/07/17 11:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	03/08/17 09:19	03/09/17 16:45	1
Dibromofluoromethane	95		75 - 120	03/08/17 09:19	03/09/17 16:45	1
1,2-Dichloroethane-d4 (Surr)	96		69 - 134	03/08/17 09:19	03/09/17 16:45	1
Toluene-d8 (Surr)	90		75 - 123	03/08/17 09:19	03/09/17 16:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Benzo[a]anthracene	0.010	J	0.036	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (0-5)

Lab Sample ID: 500-124772-4

Date Collected: 03/07/17 11:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.037		0.036	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Benzo[b]fluoranthene	0.045		0.036	0.0078	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Benzo[g,h,i]perylene	0.030	J	0.036	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Chrysene	0.012	J	0.036	0.0098	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Dibenz(a,h)anthracene	0.030	J	0.036	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Fluoranthene	0.018	J	0.036	0.0067	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.036	0.0093	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2-Methylnaphthalene	<0.073		0.073	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (0-5)

Lab Sample ID: 500-124772-4

Date Collected: 03/07/17 11:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
Pyrene	0.015	J	0.036	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		42 - 115	03/08/17 18:45	03/09/17 14:09	1
2-Fluorophenol	94		40 - 130	03/08/17 18:45	03/09/17 14:09	1
Nitrobenzene-d5	76		33 - 124	03/08/17 18:45	03/09/17 14:09	1
Phenol-d5	96		36 - 123	03/08/17 18:45	03/09/17 14:09	1
Terphenyl-d14	90		25 - 150	03/08/17 18:45	03/09/17 14:09	1
2,4,6-Tribromophenol	80		25 - 130	03/08/17 18:45	03/09/17 14:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.0	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Arsenic	4.0		0.52	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Barium	31		0.52	0.096	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Beryllium	0.26		0.21	0.045	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Cadmium	0.13		0.10	0.030	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Chromium	6.7	B	0.52	0.090	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Cobalt	4.5		0.26	0.059	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Copper	8.0		0.52	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Iron	8600		10	4.0	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Lead	7.6		0.26	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Magnesium	110000	B	52	21	mg/Kg	☼	03/09/17 14:42	03/11/17 22:29	10
Calcium	180000	B	100	34	mg/Kg	☼	03/09/17 14:42	03/11/17 22:29	10
Manganese	390		0.52	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Nickel	9.8		0.52	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Selenium	0.57		0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Vanadium	11		0.26	0.076	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Zinc	25		1.0	0.33	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Potassium	680	B	26	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1
Sodium	310	B	52	6.9	mg/Kg	☼	03/09/17 14:42	03/10/17 21:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Barium	0.38	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (0-5)

Lab Sample ID: 500-124772-4

Date Collected: 03/07/17 11:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:14	1
Magnesium	150		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:14	1
Manganese	0.65		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Potassium	1.0 J		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:14	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:14	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 00:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 21:52	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 21:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0094	mg/Kg	☼	03/10/17 15:00	03/13/17 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.42		0.42	0.14	mg/Kg	☼	03/08/17 16:40	03/09/17 16:22	1
pH	8.8		0.2	0.2	SU			03/10/17 18:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (5-9)

Lab Sample ID: 500-124772-5

Date Collected: 03/07/17 11:05

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,1,1,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	03/08/17 09:19	03/09/17 17:09	1
Dibromofluoromethane	90		75 - 120	03/08/17 09:19	03/09/17 17:09	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 134	03/08/17 09:19	03/09/17 17:09	1
Toluene-d8 (Surr)	90		75 - 123	03/08/17 09:19	03/09/17 17:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (5-9)

Lab Sample ID: 500-124772-5

Date Collected: 03/07/17 11:05

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Benzo[g,h,i]perylene	0.021	J	0.035	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Bis(2-ethylhexyl) phthalate	0.072	J	0.18	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2-Methylnaphthalene	<0.072		0.072	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (5-9)

Lab Sample ID: 500-124772-5

Date Collected: 03/07/17 11:05

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
Pyrene	<0.035		0.035	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		42 - 115	03/08/17 18:45	03/09/17 11:40	1
2-Fluorophenol	90		40 - 130	03/08/17 18:45	03/09/17 11:40	1
Nitrobenzene-d5	73		33 - 124	03/08/17 18:45	03/09/17 11:40	1
Phenol-d5	67		36 - 123	03/08/17 18:45	03/09/17 11:40	1
Terphenyl-d14	84		25 - 150	03/08/17 18:45	03/09/17 11:40	1
2,4,6-Tribromophenol	71		25 - 130	03/08/17 18:45	03/09/17 11:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.0	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Arsenic	4.2		0.52	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Barium	5.0		0.52	0.096	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Beryllium	0.14	J	0.21	0.045	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Cadmium	0.054	J	0.10	0.030	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Chromium	3.4	B	0.52	0.090	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Cobalt	2.5		0.26	0.059	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Copper	6.9		0.52	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Iron	5400		10	4.0	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Lead	6.2		0.26	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Magnesium	130000	B	52	21	mg/Kg	☼	03/09/17 14:42	03/11/17 22:33	10
Calcium	210000	B	100	34	mg/Kg	☼	03/09/17 14:42	03/11/17 22:33	10
Manganese	200		0.52	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Nickel	5.6		0.52	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Selenium	0.49	J	0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Vanadium	4.7		0.26	0.076	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Zinc	20		1.0	0.33	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Potassium	370	B	26	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1
Sodium	190	B	52	6.9	mg/Kg	☼	03/09/17 14:42	03/10/17 21:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Barium	0.081	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B02 (5-9)

Lab Sample ID: 500-124772-5

Date Collected: 03/07/17 11:05

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Iron	0.20	J B	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:19	1
Magnesium	110		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:19	1
Manganese	1.1		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Nickel	0.012	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Potassium	1.2	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:19	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:19	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 00:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 21:56	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 21:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0083	mg/Kg	☼	03/10/17 15:00	03/13/17 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.43		0.43	0.14	mg/Kg	☼	03/08/17 16:40	03/09/17 16:23	1
pH	8.6		0.2	0.2	SU			03/10/17 18:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (0-5)

Lab Sample ID: 500-124772-6

Date Collected: 03/07/17 10:45

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	03/08/17 09:19	03/09/17 17:33	1
Dibromofluoromethane	88		75 - 120	03/08/17 09:19	03/09/17 17:33	1
1,2-Dichloroethane-d4 (Surr)	83		69 - 134	03/08/17 09:19	03/09/17 17:33	1
Toluene-d8 (Surr)	91		75 - 123	03/08/17 09:19	03/09/17 17:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (0-5)

Lab Sample ID: 500-124772-6

Date Collected: 03/07/17 10:45

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.035		0.035	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Benzo[b]fluoranthene	0.039		0.035	0.0077	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Benzo[g,h,i]perylene	0.031	J	0.035	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Dibenz(a,h)anthracene	0.030	J	0.035	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Fluoranthene	0.011	J	0.035	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.035	0.0092	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2-Methylnaphthalene	<0.072		0.072	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (0-5)

Lab Sample ID: 500-124772-6

Date Collected: 03/07/17 10:45

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Phenanthrene	<0.035		0.035	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
Pyrene	0.010	J	0.035	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		42 - 115	03/08/17 18:45	03/09/17 14:34	1
2-Fluorophenol	91		40 - 130	03/08/17 18:45	03/09/17 14:34	1
Nitrobenzene-d5	74		33 - 124	03/08/17 18:45	03/09/17 14:34	1
Phenol-d5	91		36 - 123	03/08/17 18:45	03/09/17 14:34	1
Terphenyl-d14	86		25 - 150	03/08/17 18:45	03/09/17 14:34	1
2,4,6-Tribromophenol	75		25 - 130	03/08/17 18:45	03/09/17 14:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.0	0.21	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Arsenic	2.3		0.51	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Barium	17		0.51	0.093	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Beryllium	0.23		0.20	0.044	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Cadmium	0.052	J	0.10	0.030	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Chromium	4.5	B	0.51	0.088	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Cobalt	2.6		0.25	0.058	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Copper	3.9		0.51	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Iron	4700		10	3.9	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Lead	3.5		0.25	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Magnesium	140000	B	51	21	mg/Kg	☼	03/09/17 14:42	03/11/17 22:38	10
Calcium	220000	B	100	33	mg/Kg	☼	03/09/17 14:42	03/11/17 22:38	10
Manganese	310		0.51	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Nickel	5.2		0.51	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Vanadium	6.0		0.25	0.074	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Zinc	12		1.0	0.32	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Potassium	590	B	25	4.2	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1
Sodium	200	B	51	6.7	mg/Kg	☼	03/09/17 14:42	03/10/17 21:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Barium	0.21	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (0-5)

Lab Sample ID: 500-124772-6

Date Collected: 03/07/17 10:45

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Cobalt	0.010	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:23	1
Magnesium	140		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:23	1
Manganese	2.0		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Nickel	0.017	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Potassium	0.95	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:23	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:23	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.017	J	0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:00	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:00	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.016	0.0082	mg/Kg	☼	03/10/17 15:00	03/13/17 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	03/08/17 16:40	03/09/17 16:24	1
pH	8.4		0.2	0.2	SU			03/10/17 18:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (5-7)

Lab Sample ID: 500-124772-7

Date Collected: 03/07/17 10:50

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00043	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,1-Dichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Ethylbenzene	<0.0016		0.0016	0.00074	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Trichloroethene	<0.0016		0.0016	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Vinyl acetate	<0.0039		0.0039	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	03/08/17 09:19	03/09/17 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 120	03/08/17 09:19	03/09/17 17:58	1
Dibromofluoromethane	88		75 - 120	03/08/17 09:19	03/09/17 17:58	1
1,2-Dichloroethane-d4 (Surr)	83		69 - 134	03/08/17 09:19	03/09/17 17:58	1
Toluene-d8 (Surr)	90		75 - 123	03/08/17 09:19	03/09/17 17:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (5-7)

Lab Sample ID: 500-124772-7

Date Collected: 03/07/17 10:50

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (5-7)

Lab Sample ID: 500-124772-7

Date Collected: 03/07/17 10:50

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		42 - 115	03/08/17 18:45	03/09/17 14:59	1
2-Fluorophenol	94		40 - 130	03/08/17 18:45	03/09/17 14:59	1
Nitrobenzene-d5	76		33 - 124	03/08/17 18:45	03/09/17 14:59	1
Phenol-d5	68		36 - 123	03/08/17 18:45	03/09/17 14:59	1
Terphenyl-d14	86		25 - 150	03/08/17 18:45	03/09/17 14:59	1
2,4,6-Tribromophenol	75		25 - 130	03/08/17 18:45	03/09/17 14:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Arsenic	5.0		0.53	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Barium	8.1		0.53	0.096	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Beryllium	0.13	J	0.21	0.046	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Cadmium	0.11		0.11	0.030	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Chromium	4.9	B	0.53	0.091	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Cobalt	3.6		0.26	0.059	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Copper	11		0.53	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Iron	7900		11	4.1	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Lead	4.6		0.26	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Magnesium	89000	B	53	21	mg/Kg	☼	03/09/17 14:42	03/11/17 22:42	10
Calcium	150000	B	110	34	mg/Kg	☼	03/09/17 14:42	03/11/17 22:42	10
Manganese	240		0.53	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Nickel	9.4		0.53	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Vanadium	6.9		0.26	0.077	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Zinc	33		1.1	0.33	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Potassium	480	B	26	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1
Sodium	180	B	53	6.9	mg/Kg	☼	03/09/17 14:42	03/10/17 21:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Barium	0.078	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B03 (5-7)

Lab Sample ID: 500-124772-7

Date Collected: 03/07/17 10:50

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	410		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:28	1
Magnesium	110		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:28	1
Manganese	1.1		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Nickel	0.012	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Potassium	1.1	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:28	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:28	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:04	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:04	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0090	mg/Kg	☼	03/10/17 15:00	03/13/17 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.15	mg/Kg	☼	03/08/17 16:40	03/09/17 16:24	1
pH	8.6		0.2	0.2	SU			03/10/17 18:56	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (0-5)

Lab Sample ID: 500-124772-8

Date Collected: 03/07/17 10:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0093	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
2-Butanone (MEK)	<0.0053		0.0053	0.0024	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Chloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Vinyl acetate	<0.0053		0.0053	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	☼	03/08/17 09:19	03/09/17 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	03/08/17 09:19	03/09/17 18:22	1
Dibromofluoromethane	87		75 - 120	03/08/17 09:19	03/09/17 18:22	1
1,2-Dichloroethane-d4 (Surr)	89		69 - 134	03/08/17 09:19	03/09/17 18:22	1
Toluene-d8 (Surr)	91		75 - 123	03/08/17 09:19	03/09/17 18:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (0-5)

Lab Sample ID: 500-124772-8

Date Collected: 03/07/17 10:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.024	J	0.034	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Benzo[b]fluoranthene	0.024	J	0.034	0.0073	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Benzo[g,h,i]perylene	0.021	J	0.034	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Chrysene	<0.034		0.034	0.0093	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.27	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,4-Dinitrophenol	<0.69		0.69	0.60	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0088	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2-Methylnaphthalene	<0.069		0.069	0.0063	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (0-5)

Lab Sample ID: 500-124772-8

Date Collected: 03/07/17 10:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.69		0.69	0.32	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Phenanthrene	<0.034		0.034	0.0047	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Phenol	<0.17		0.17	0.076	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
Pyrene	<0.034		0.034	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		42 - 115	03/08/17 18:45	03/09/17 15:24	1
2-Fluorophenol	102		40 - 130	03/08/17 18:45	03/09/17 15:24	1
Nitrobenzene-d5	83		33 - 124	03/08/17 18:45	03/09/17 15:24	1
Phenol-d5	76		36 - 123	03/08/17 18:45	03/09/17 15:24	1
Terphenyl-d14	91		25 - 150	03/08/17 18:45	03/09/17 15:24	1
2,4,6-Tribromophenol	84		25 - 130	03/08/17 18:45	03/09/17 15:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	0.99	0.21	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Arsenic	3.6		0.49	0.23	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Barium	15		0.49	0.091	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Beryllium	0.15	J	0.20	0.043	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Cadmium	0.11		0.099	0.029	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Chromium	3.5	B	0.49	0.085	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Cobalt	2.7		0.25	0.056	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Copper	6.7		0.49	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Iron	5000		9.9	3.8	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Lead	9.0		0.25	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Magnesium	160000	B	49	20	mg/Kg	☼	03/09/17 14:42	03/11/17 22:53	10
Calcium	250000	B	99	32	mg/Kg	☼	03/09/17 14:42	03/11/17 22:53	10
Manganese	300		0.49	0.098	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Nickel	6.0		0.49	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Vanadium	5.2		0.25	0.072	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Zinc	19		0.99	0.31	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Potassium	420	B	25	4.0	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1
Sodium	210	B	49	6.5	mg/Kg	☼	03/09/17 14:42	03/10/17 22:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Barium	0.25	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (0-5)

Lab Sample ID: 500-124772-8

Date Collected: 03/07/17 10:25

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	360		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Iron	0.20	J B	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:36	1
Magnesium	140		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:36	1
Manganese	1.1		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Potassium	0.78	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:36	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:36	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.051		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:08	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0093	mg/Kg	☼	03/10/17 15:00	03/13/17 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.16	mg/Kg	☼	03/08/17 16:40	03/09/17 16:24	1
pH	8.3		0.2	0.2	SU			03/10/17 19:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (5-7)

Lab Sample ID: 500-124772-9

Date Collected: 03/07/17 10:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	03/08/17 09:19	03/10/17 15:30	1
Dibromofluoromethane	93		75 - 120	03/08/17 09:19	03/10/17 15:30	1
1,2-Dichloroethane-d4 (Surr)	92		69 - 134	03/08/17 09:19	03/10/17 15:30	1
Toluene-d8 (Surr)	87		75 - 123	03/08/17 09:19	03/10/17 15:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (5-7)

Lab Sample ID: 500-124772-9

Date Collected: 03/07/17 10:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (5-7)

Lab Sample ID: 500-124772-9

Date Collected: 03/07/17 10:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		42 - 115	03/08/17 18:45	03/09/17 15:49	1
2-Fluorophenol	89		40 - 130	03/08/17 18:45	03/09/17 15:49	1
Nitrobenzene-d5	71		33 - 124	03/08/17 18:45	03/09/17 15:49	1
Phenol-d5	89		36 - 123	03/08/17 18:45	03/09/17 15:49	1
Terphenyl-d14	85		25 - 150	03/08/17 18:45	03/09/17 15:49	1
2,4,6-Tribromophenol	69		25 - 130	03/08/17 18:45	03/09/17 15:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Arsenic	5.8		0.53	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Barium	9.3		0.53	0.096	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Beryllium	0.17	J	0.21	0.046	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Cadmium	0.18		0.11	0.031	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Chromium	4.9	B	0.53	0.091	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Cobalt	5.4		0.26	0.060	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Copper	14		0.53	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Iron	9300		11	4.1	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Lead	8.2		0.26	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Magnesium	97000	B	53	21	mg/Kg	☼	03/09/17 14:42	03/11/17 22:58	10
Calcium	180000	B	110	34	mg/Kg	☼	03/09/17 14:42	03/11/17 22:58	10
Manganese	380		0.53	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Nickel	10		0.53	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Vanadium	7.0		0.26	0.077	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Zinc	49		1.1	0.33	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Potassium	440	B	26	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1
Sodium	190	B	53	7.0	mg/Kg	☼	03/09/17 14:42	03/10/17 22:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Barium	0.089	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 01:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 01:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 01:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-B04 (5-7)

Lab Sample ID: 500-124772-9

Date Collected: 03/07/17 10:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 91.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	470		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 01:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Iron	0.22	J B ^	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 01:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 01:53	1
Magnesium	81		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:53	1
Manganese	1.0		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Potassium	1.4	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 01:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 01:53	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 01:53	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 01:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:17	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:12	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.016	0.0086	mg/Kg	☼	03/10/17 15:00	03/13/17 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	03/08/17 16:40	03/09/17 16:25	1
pH	8.4		0.2	0.2	SU			03/10/17 19:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-G01

Lab Sample ID: 500-124772-10

Date Collected: 03/07/17 13:10

Matrix: Water

Date Received: 03/07/17 17:24

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			03/14/17 04:45	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/14/17 04:45	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/14/17 04:45	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/14/17 04:45	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/14/17 04:45	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/14/17 04:45	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/14/17 04:45	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:45	1
Chloroethane	<0.0010	*	0.0010	0.00051	mg/L			03/14/17 04:45	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			03/14/17 04:45	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/14/17 04:45	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/14/17 04:45	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/14/17 04:45	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/14/17 04:45	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/14/17 04:45	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:45	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:45	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/14/17 04:45	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/14/17 04:45	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/14/17 04:45	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/14/17 04:45	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/14/17 04:45	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/14/17 04:45	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/14/17 04:45	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:45	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:45	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/14/17 04:45	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/14/17 04:45	1
Toluene	0.00068		0.00050	0.00015	mg/L			03/14/17 04:45	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/14/17 04:45	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/14/17 04:45	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/14/17 04:45	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/14/17 04:45	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/14/17 04:45	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/14/17 04:45	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/14/17 04:45	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/14/17 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		71 - 120		03/14/17 04:45	1
Dibromofluoromethane	95		70 - 120		03/14/17 04:45	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 127		03/14/17 04:45	1
Toluene-d8 (Surr)	99		75 - 120		03/14/17 04:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00076		0.00076	0.00023	mg/L		03/10/17 07:16	03/10/17 14:45	1
Acenaphthylene	<0.00076		0.00076	0.00020	mg/L		03/10/17 07:16	03/10/17 14:45	1
Anthracene	<0.00076		0.00076	0.00025	mg/L		03/10/17 07:16	03/10/17 14:45	1
Benzo[a]anthracene	<0.00012		0.00012	0.000043	mg/L		03/10/17 07:16	03/10/17 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-G01

Lab Sample ID: 500-124772-10

Date Collected: 03/07/17 13:10

Matrix: Water

Date Received: 03/07/17 17:24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.00015		0.00015	0.000075	mg/L		03/10/17 07:16	03/10/17 14:45	1
Benzo[b]fluoranthene	<0.00015		0.00015	0.000061	mg/L		03/10/17 07:16	03/10/17 14:45	1
Benzo[g,h,i]perylene	<0.00076		0.00076	0.00029	mg/L		03/10/17 07:16	03/10/17 14:45	1
Benzo[k]fluoranthene	<0.00015		0.00015	0.000049	mg/L		03/10/17 07:16	03/10/17 14:45	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015	0.00022	mg/L		03/10/17 07:16	03/10/17 14:45	1
Bis(2-chloroethyl)ether	<0.0015		0.0015	0.00022	mg/L		03/10/17 07:16	03/10/17 14:45	1
Bis(2-ethylhexyl) phthalate	<0.0076		0.0076	0.0013	mg/L		03/10/17 07:16	03/10/17 14:45	1
4-Bromophenyl phenyl ether	<0.0038		0.0038	0.00041	mg/L		03/10/17 07:16	03/10/17 14:45	1
Butyl benzyl phthalate	<0.0015		0.0015	0.00036	mg/L		03/10/17 07:16	03/10/17 14:45	1
Carbazole	<0.0038		0.0038	0.00027	mg/L		03/10/17 07:16	03/10/17 14:45	1
4-Chloroaniline	<0.0076		0.0076	0.0015	mg/L		03/10/17 07:16	03/10/17 14:45	1
4-Chloro-3-methylphenol	<0.0076		0.0076	0.0017	mg/L		03/10/17 07:16	03/10/17 14:45	1
2-Chloronaphthalene	<0.0015 *		0.0015	0.00018	mg/L		03/10/17 07:16	03/10/17 14:45	1
2-Chlorophenol	<0.0038		0.0038	0.00042	mg/L		03/10/17 07:16	03/10/17 14:45	1
4-Chlorophenyl phenyl ether	<0.0038		0.0038	0.00048	mg/L		03/10/17 07:16	03/10/17 14:45	1
Chrysene	<0.00015		0.00015	0.000052	mg/L		03/10/17 07:16	03/10/17 14:45	1
Dibenz(a,h)anthracene	<0.00023		0.00023	0.000039	mg/L		03/10/17 07:16	03/10/17 14:45	1
Dibenzofuran	<0.0015		0.0015	0.00020	mg/L		03/10/17 07:16	03/10/17 14:45	1
1,2-Dichlorobenzene	<0.0015 *		0.0015	0.00019	mg/L		03/10/17 07:16	03/10/17 14:45	1
1,3-Dichlorobenzene	<0.0015 *		0.0015	0.00016	mg/L		03/10/17 07:16	03/10/17 14:45	1
1,4-Dichlorobenzene	<0.0015 *		0.0015	0.00016	mg/L		03/10/17 07:16	03/10/17 14:45	1
3,3'-Dichlorobenzidine	<0.0038		0.0038	0.0013	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,4-Dichlorophenol	<0.0076		0.0076	0.0020	mg/L		03/10/17 07:16	03/10/17 14:45	1
Diethyl phthalate	<0.0015		0.0015	0.00027	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,4-Dimethylphenol	<0.0076		0.0076	0.0014	mg/L		03/10/17 07:16	03/10/17 14:45	1
Dimethyl phthalate	<0.0015		0.0015	0.00024	mg/L		03/10/17 07:16	03/10/17 14:45	1
Di-n-butyl phthalate	<0.0038		0.0038	0.00055	mg/L		03/10/17 07:16	03/10/17 14:45	1
4,6-Dinitro-2-methylphenol	<0.015		0.015	0.0045	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,4-Dinitrophenol	<0.015		0.015	0.0065	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,4-Dinitrotoluene	<0.00076		0.00076	0.00019	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,6-Dinitrotoluene	<0.00076		0.00076	0.000056	mg/L		03/10/17 07:16	03/10/17 14:45	1
Di-n-octyl phthalate	<0.0076		0.0076	0.00080	mg/L		03/10/17 07:16	03/10/17 14:45	1
Fluoranthene	<0.00076		0.00076	0.00034	mg/L		03/10/17 07:16	03/10/17 14:45	1
Fluorene	<0.00076		0.00076	0.00019	mg/L		03/10/17 07:16	03/10/17 14:45	1
Hexachlorobenzene	<0.00038		0.00038	0.000060	mg/L		03/10/17 07:16	03/10/17 14:45	1
Hexachlorobutadiene	<0.0038 *		0.0038	0.00039	mg/L		03/10/17 07:16	03/10/17 14:45	1
Hexachlorocyclopentadiene	<0.015 *		0.015	0.0048	mg/L		03/10/17 07:16	03/10/17 14:45	1
Hexachloroethane	<0.0038 *		0.0038	0.00046	mg/L		03/10/17 07:16	03/10/17 14:45	1
Indeno[1,2,3-cd]pyrene	<0.00015		0.00015	0.000057	mg/L		03/10/17 07:16	03/10/17 14:45	1
Isophorone	<0.0015		0.0015	0.00029	mg/L		03/10/17 07:16	03/10/17 14:45	1
2-Methylnaphthalene	<0.0015 *		0.0015	0.000050	mg/L		03/10/17 07:16	03/10/17 14:45	1
2-Methylphenol	<0.0015		0.0015	0.00023	mg/L		03/10/17 07:16	03/10/17 14:45	1
3 & 4 Methylphenol	<0.0015		0.0015	0.00034	mg/L		03/10/17 07:16	03/10/17 14:45	1
Naphthalene	<0.00076		0.00076	0.00023	mg/L		03/10/17 07:16	03/10/17 14:45	1
2-Nitroaniline	<0.0038		0.0038	0.00098	mg/L		03/10/17 07:16	03/10/17 14:45	1
3-Nitroaniline	<0.0076		0.0076	0.0014	mg/L		03/10/17 07:16	03/10/17 14:45	1
4-Nitroaniline	<0.0076		0.0076	0.0013	mg/L		03/10/17 07:16	03/10/17 14:45	1
Nitrobenzene	<0.00076		0.00076	0.00034	mg/L		03/10/17 07:16	03/10/17 14:45	1
2-Nitrophenol	<0.0076		0.0076	0.0019	mg/L		03/10/17 07:16	03/10/17 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-G01

Lab Sample ID: 500-124772-10

Date Collected: 03/07/17 13:10

Matrix: Water

Date Received: 03/07/17 17:24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.015		0.015	0.0056	mg/L		03/10/17 07:16	03/10/17 14:45	1
N-Nitrosodi-n-propylamine	<0.00038		0.00038	0.00012	mg/L		03/10/17 07:16	03/10/17 14:45	1
N-Nitrosodiphenylamine	<0.00076		0.00076	0.00028	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,2'-oxybis[1-chloropropane]	<0.0015		0.0015	0.00029	mg/L		03/10/17 07:16	03/10/17 14:45	1
Pentachlorophenol	<0.015		0.015	0.0030	mg/L		03/10/17 07:16	03/10/17 14:45	1
Phenanthrene	<0.00076		0.00076	0.00023	mg/L		03/10/17 07:16	03/10/17 14:45	1
Phenol	<0.0038		0.0038	0.00051	mg/L		03/10/17 07:16	03/10/17 14:45	1
Pyrene	<0.00076		0.00076	0.00032	mg/L		03/10/17 07:16	03/10/17 14:45	1
1,2,4-Trichlorobenzene	<0.0015 *		0.0015	0.00018	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,4,5-Trichlorophenol	<0.0076		0.0076	0.0019	mg/L		03/10/17 07:16	03/10/17 14:45	1
2,4,6-Trichlorophenol	<0.0038		0.0038	0.00054	mg/L		03/10/17 07:16	03/10/17 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		30 - 123				03/10/17 07:16	03/10/17 14:45	1
2-Fluorophenol	66		30 - 110				03/10/17 07:16	03/10/17 14:45	1
Nitrobenzene-d5	88		33 - 139				03/10/17 07:16	03/10/17 14:45	1
Phenol-d5	53		20 - 100				03/10/17 07:16	03/10/17 14:45	1
Terphenyl-d14	82		42 - 150				03/10/17 07:16	03/10/17 14:45	1
2,4,6-Tribromophenol	98		30 - 150				03/10/17 07:16	03/10/17 14:45	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0016	J	0.0030	0.0010	mg/L		03/08/17 13:46	03/09/17 12:33	1
Arsenic	0.042		0.0010	0.00044	mg/L		03/08/17 13:46	03/09/17 12:33	1
Barium	0.16		0.0025	0.00084	mg/L		03/08/17 13:46	03/09/17 12:33	1
Beryllium	0.00094	J ^	0.0020	0.00047	mg/L		03/08/17 13:46	03/10/17 12:38	2
Cadmium	0.0017		0.00050	0.00019	mg/L		03/08/17 13:46	03/09/17 12:33	1
Calcium	350		0.40	0.21	mg/L		03/08/17 13:46	03/10/17 12:38	2
Chromium	0.026		0.0050	0.00061	mg/L		03/08/17 13:46	03/09/17 12:33	1
Cobalt	0.030		0.0020	0.00038	mg/L		03/08/17 13:46	03/10/17 12:38	2
Copper	0.088		0.0020	0.00096	mg/L		03/08/17 13:46	03/09/17 12:33	1
Iron	75		0.20	0.052	mg/L		03/08/17 13:46	03/10/17 12:38	2
Lead	0.045		0.00050	0.00014	mg/L		03/08/17 13:46	03/09/17 12:33	1
Magnesium	160		0.40	0.17	mg/L		03/08/17 13:46	03/10/17 12:38	2
Manganese	1.9		0.0050	0.0020	mg/L		03/08/17 13:46	03/10/17 12:38	2
Nickel	0.057		0.0040	0.0011	mg/L		03/08/17 13:46	03/10/17 12:38	2
Potassium	6.4		1.0	0.38	mg/L		03/08/17 13:46	03/10/17 12:38	2
Selenium	0.0021	J	0.0025	0.00083	mg/L		03/08/17 13:46	03/09/17 12:33	1
Silver	<0.00050		0.00050	0.000080	mg/L		03/08/17 13:46	03/09/17 12:33	1
Sodium	140		0.40	0.18	mg/L		03/08/17 13:46	03/10/17 12:38	2
Thallium	0.0013	J	0.0020	0.00059	mg/L		03/08/17 13:46	03/09/17 12:33	1
Vanadium	0.039		0.010	0.0043	mg/L		03/08/17 13:46	03/10/17 12:38	2
Zinc	0.36		0.040	0.0092	mg/L		03/08/17 13:46	03/10/17 12:38	2

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00047		0.00020	0.00011	mg/L		03/08/17 17:10	03/09/17 12:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: 3008-1-G01

Lab Sample ID: 500-124772-10

Date Collected: 03/07/17 13:10

Matrix: Water

Date Received: 03/07/17 17:24

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010	0.0035	mg/L		03/11/17 12:25	03/11/17 15:49	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-124772-11

Date Collected: 03/07/17 00:00

Matrix: Water

Date Received: 03/07/17 17:24

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			03/14/17 04:18	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/14/17 04:18	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/14/17 04:18	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/14/17 04:18	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/14/17 04:18	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/14/17 04:18	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/14/17 04:18	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:18	1
Chloroethane	<0.0010 *		0.0010	0.00051	mg/L			03/14/17 04:18	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			03/14/17 04:18	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/14/17 04:18	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/14/17 04:18	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/14/17 04:18	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/14/17 04:18	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/14/17 04:18	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:18	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:18	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/14/17 04:18	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/14/17 04:18	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/14/17 04:18	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/14/17 04:18	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/14/17 04:18	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/14/17 04:18	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/14/17 04:18	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:18	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/14/17 04:18	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/14/17 04:18	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/14/17 04:18	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/14/17 04:18	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/14/17 04:18	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/14/17 04:18	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/14/17 04:18	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/14/17 04:18	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/14/17 04:18	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/14/17 04:18	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/14/17 04:18	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/14/17 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 120		03/14/17 04:18	1
Dibromofluoromethane	95		70 - 120		03/14/17 04:18	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 127		03/14/17 04:18	1
Toluene-d8 (Surr)	100		75 - 120		03/14/17 04:18	1

TestAmerica Chicago

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.53



500-124772 COC

Report To: (optional) Matt Weiss
Contact: Matt Weiss
Company: TERRACON
Address: 135 Ambassador Drive
Address: NAPERVILLE, IL 60540
Phone: 630-445-0160
Fax:
E-Mail:

Bill To: (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-124772
Chain of Custody Number:
Page _____ of _____
Temperature °C of Cooler: 3.3, 3.8 → 3.4

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
TERRACON		11167058H									
Project Name		Lab Project #		Sampling		# of Containers		Matrix		Comments	
Kesa Site 1				Date Time		Matrix					
Sampler		Lab PM									
Juna Luska Williams											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix
1		3008-1-B01 (0-5)	3/7/17	1145	5	S	VOCS	SVOCS	Total 23 Inorganics	PH	TICLP 23*
2		3008-1-B01 DUP (0-5)	3/7/17	1125	5	S	X	X	X	X	X
3		3008-1-B01 (5-7)	3/7/17	1130	5	S	X	X	X	X	X
4		3008-1-B02 (0-5)	3/7/17	1100	5	S	X	X	X	X	X
5		3008-1-B02 (5-9)	3/7/17	1105	5	S	X	X	X	X	X
6		3008-1-B03 (0-5)	3/7/17	1045	5	S	X	X	X	X	X
7		3008-1-B03 (5-7)	3/7/17	1050	5	S	X	X	X	X	X
8		3008-1-B04 (0-5)	3/7/17	1025	5	S	X	X	X	X	X
9		3008-1-B04 (5-7)	3/7/17	1030	5	S	X	X	X	X	X

- Preservative Key
- HCL, Cool to 4°
 - H2SO4, Cool to 4°
 - HNO3, Cool to 4°
 - NaOH, Cool to 4°
 - NaOH/Zn, Cool to 4°
 - NaHSO4
 - Cool to 4°
 - None
 - Other

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Matt Weiss</u> Company: <u>TERRACON</u> Date: <u>3/7/17</u> Time: <u>1450</u>	Received By: <u>David Becker</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1450</u>
Relinquished By: <u>David Becker</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1724</u>	Received By: <u>Alexis Scott</u> Company: <u>TA-CHE</u> Date: <u>3/8/17</u> Time: <u>0730</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: * No Aluminum

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To: Matt Wews (optional)
 Contact: _____
 Company: TERRACON
 Address: 135 Ambassador Dr
Naperville, IL 60540
 Phone: 630-445-0160
 Fax: _____
 E-Mail: _____

Bill To: _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-124772

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client: <u>TERRACON</u>		Client Project #: <u>11167058 H</u>		Preservative		Parameter												Preservative Key					
Project Name				Project Location/State				Lab Project #				Sampler				Lab PM							
<u>PESA SITE 1</u>				<u>INDIANA</u>								<u>Richard Wright</u>											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Tob1 23	Inorganics													
			Date	Time							Comments												
<u>10</u>		<u>3008-1-G01</u>	<u>3/7/17</u>	<u>1310</u>	<u>7</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>11</u>		<u>Trip Blank</u>			<u>2</u>	<u>W</u>	<u>X</u>																

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>John Wews</u> Company: <u>TERRACON</u> Date: <u>3/7/17</u> Time: <u>1450</u>	Received By: <u>David Beckm</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1450</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>David Beckm</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1724</u>	Received By: <u>Shawn Wood</u> Company: <u>TA-CHS</u> Date: <u>3/8/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: * No Aluminum

Lab Comments: _____



Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-124772-1

Login Number: 124772

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3,3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAI 55-East Frontage Road, Southwest of Black Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

East Frontage Road (Southbound) IDOT STA 241+50 to 246+00 (ISGS Site 3008-2)

City: Joliet State: IL Zip Code: 60404

County: Will Township: Joliet

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.53589 Longitude: -88.17957

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAI 55-East Frontage Road, Southwest of Black Rc

Latitude: 41.53589 Longitude: -88.17957

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Soil from borings B01, B02, and B03 were sampled adjacent to ISGS Site No 3008-2.
See Exhibits 2, 2A, and Table 4 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J124772-2.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 135 Ambassador Drive
 City: Naperville State: IL Zip Code: 60540
 Phone: 630-717-4263

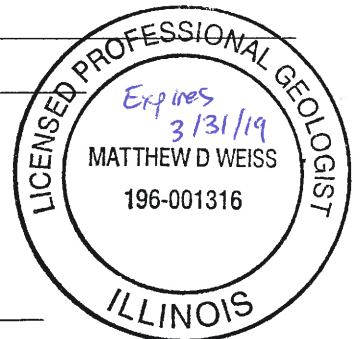
Matt Weiss
 Printed Name:

[Signature]

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

4/13/17

Date:



Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-2)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-2-B01 (0-2)	3008-2-B02 (0-2)	3008-2-B03 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Volatile Organic Analytical Parameters								
Acetone	mg/kg	---	---	25		0.034	0.055	<0.021
2-Butanone	mg/kg	---	---	17		0.0068	0.011	<0.0052
Semivolatile Organic Analytical Parameters								
Acenaphthylene	mg/kg	0.03	0.07	85		0.016	<0.037	0.0058
Anthracene	mg/kg	0.25	0.4	12000		0.0088	0.013	<0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.053	0.056	0.018
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.1	0.084	0.046
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.16	0.12	0.065
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.071	0.05	0.034
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.065	0.043	0.016
Chrysene	mg/kg	1.2	2.7	88		0.064	0.066	0.021
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.039	0.035	0.034
Fluoranthene	mg/kg	2.7	4.1	3100		0.09	0.12	0.032
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.068	0.053	0.038
Phenanthrene	mg/kg	1.3	2.5	210		0.023	0.044	0.011
Pyrene	mg/kg	1.9	3.0	2300		0.09	0.14	0.032
Di-n-octylphthalate	mg/kg	---	---	1600		<0.18	0.067	<0.19
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		3.8	7.3	9
Barium	mg/kg	---	110	1500		49	61	86
Cadmium	mg/kg	---	0.6	5.2		0.21	0.22	0.33
Chromium, total	mg/kg	---	16.2	21		8	12	12
Lead	mg/kg	---	36	107		18	16	21
Mercury	mg/kg	---	0.06	0.1		0.015	0.022	0.059
Selenium	mg/kg	---	0.48	1.3		<0.53	0.71	1
Silver	mg/kg	---	0.55	4.4		<0.27	<0.28	<0.29
Antimony	mg/kg	---	4.0	5		0.32	0.27	0.25
Beryllium	mg/kg	---	0.59	22		0.37	0.51	0.57
Calcium	mg/kg	---	9,300	---		170000	84000	22000
Cobalt	mg/kg	---	8.9	20		5.1	9.1	12
Copper	mg/kg	---	19.6	2900		9.5	18	29
Cyanide	mg/kg	---	0.51	---		<0.45	<0.56	<0.58
Iron	mg/kg	---	15,900	15000		8900	16000	21000
Magnesium	mg/kg	---	4,820	325000		110000	26000	14000
Manganese	mg/kg	---	636	630		420	340	610
Nickel	mg/kg	---	18	100		11	21	22
Potassium	mg/kg	---	1,268	---		840	880	830
Sodium	mg/kg	---	130	---		1500	2000	880
Thallium	mg/kg	---	0.32	2.6		<0.53	<0.56	<0.59
Vanadium	mg/kg	---	25.2	550		12	18	26
Zinc	mg/kg	---	95	5100		34	50	65
pH			6.25	9		8.8	8.2	8.4

Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-2)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-2-B01 (0-2)	3008-2-B02 (0-2)	3008-2-B03 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.97	1.5	--
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.41	0.58	0.38
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		0.013	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		280	400	290
Cobalt,TCLP	mg/L	---	---	---		0.02	0.024	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		0.29	<0.40	0.33
Magnesium,TCLP	mg/L	---	---	---		130	63	140
Manganese,TCLP	mg/L	---	---	---		5.1	9	0.08
Nickel,TCLP	mg/L	---	---	---		0.019	0.01	<0.025
Potassium,TCLP	mg/L	---	---	---		1.3	0.68	<2.5
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	<0.50	<0.50

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-124772-2

Client Project/Site: IDOT - Joliet - WO 24

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/17/2017 8:17:12 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Job ID: 500-124772-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-124772-2

Comments

No additional comments.

Receipt

The samples were received on 3/7/2017 5:24 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.4° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-375147 and analytical batch 500-375399 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The continuing calibration blanks (CCB) contained Iron above the reporting limit (RL). The samples 3008-2-B01 (0-2) (500-124772-12), 3008-2-B02 (0-2) (500-124772-13) and 3008-2-B03 (0-2) (500-124772-14) associated with this CCB did not contain the target compound; therefore, re-analysis of samples was not performed.

Method(s) 6020A: The continuing calibration verifications (CCV) associated with batch 500-375684 recovered above the upper control limit for Antimony and Thallium. The associated low level CCVs were within control limits. The samples associated with these CCVs were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 3008-2-B01 (0-2) (500-124772-12), 3008-2-B02 (0-2) (500-124772-13) and 3008-2-B03 (0-2) (500-124772-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B01 (0-2)

Lab Sample ID: 500-124772-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.034		0.018	0.0076	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0068		0.0044	0.0019	mg/Kg	1	☼	8260B	Total/NA
Acenaphthylene	0.016	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0088	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.053		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.10		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.071		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.065		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.064		0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.039		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.090		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.068		0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.023	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.090		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.8		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.0	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	9.5		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	8900		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	110000	B	53	22	mg/Kg	10	☼	6010B	Total/NA
Calcium	170000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.27	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	840	B	27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500	B	53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Chromium	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.29	J B ^	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.97		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-2-B02 (0-2)

Lab Sample ID: 500-124772-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.055		0.023	0.010	mg/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B02 (0-2) (Continued)

Lab Sample ID: 500-124772-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.011		0.0057	0.0025	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.013	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.056		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.084		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.050		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.066		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.035	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Di-n-octyl phthalate	0.067	J	0.19	0.061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.053		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.044		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.27	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	84000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	340		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	880	B	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000	B	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	9.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.68	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-2-B03 (0-2)

Lab Sample ID: 500-124772-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0058	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.018	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.046		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B03 (0-2) (Continued)

Lab Sample ID: 500-124772-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.065		0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.034	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.038		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.032	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	610		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	830	B	29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	880	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.33	J B ^	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.080		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.059		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-124772-12	3008-2-B01 (0-2)	Solid	03/07/17 12:20	03/07/17 17:24
500-124772-13	3008-2-B02 (0-2)	Solid	03/07/17 12:10	03/07/17 17:24
500-124772-14	3008-2-B03 (0-2)	Solid	03/07/17 12:00	03/07/17 17:24

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B01 (0-2)

Lab Sample ID: 500-124772-12

Date Collected: 03/07/17 12:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.034		0.018	0.0076	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
2-Butanone (MEK)	0.0068		0.0044	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	03/08/17 09:19	03/09/17 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	03/08/17 09:19	03/09/17 19:11	1
Dibromofluoromethane	90		75 - 120	03/08/17 09:19	03/09/17 19:11	1
1,2-Dichloroethane-d4 (Surr)	92		69 - 134	03/08/17 09:19	03/09/17 19:11	1
Toluene-d8 (Surr)	90		75 - 123	03/08/17 09:19	03/09/17 19:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Acenaphthylene	0.016	J	0.035	0.0047	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Anthracene	0.0088	J	0.035	0.0059	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Benzo[a]anthracene	0.053		0.035	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B01 (0-2)

Lab Sample ID: 500-124772-12

Date Collected: 03/07/17 12:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.10		0.035	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Benzo[b]fluoranthene	0.16		0.035	0.0076	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Benzo[g,h,i]perylene	0.071		0.035	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Benzo[k]fluoranthene	0.065		0.035	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Chrysene	0.064		0.035	0.0097	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Dibenz(a,h)anthracene	0.039		0.035	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Fluoranthene	0.090		0.035	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Indeno[1,2,3-cd]pyrene	0.068		0.035	0.0092	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B01 (0-2)

Lab Sample ID: 500-124772-12

Date Collected: 03/07/17 12:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Phenanthrene	0.023	J	0.035	0.0049	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Pyrene	0.090		0.035	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2-Fluorobiphenyl</i>	87		42 - 115				03/08/17 18:45	03/09/17 17:54	1
<i>2-Fluorophenol</i>	100		40 - 130				03/08/17 18:45	03/09/17 17:54	1
<i>Nitrobenzene-d5</i>	79		33 - 124				03/08/17 18:45	03/09/17 17:54	1
<i>Phenol-d5</i>	98		36 - 123				03/08/17 18:45	03/09/17 17:54	1
<i>Terphenyl-d14</i>	104		25 - 150				03/08/17 18:45	03/09/17 17:54	1
<i>2,4,6-Tribromophenol</i>	86		25 - 130				03/08/17 18:45	03/09/17 17:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.1	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Arsenic	3.8		0.53	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Barium	49		0.53	0.097	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Beryllium	0.37		0.21	0.046	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Cadmium	0.21		0.11	0.031	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Chromium	8.0	B	0.53	0.091	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Cobalt	5.1		0.27	0.060	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Copper	9.5		0.53	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Iron	8900		11	4.1	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Lead	18		0.27	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Magnesium	110000	B	53	22	mg/Kg	☼	03/09/17 14:42	03/11/17 23:01	10
Calcium	170000	B	110	34	mg/Kg	☼	03/09/17 14:42	03/11/17 23:01	10
Manganese	420		0.53	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Nickel	11		0.53	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Vanadium	12		0.27	0.077	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Zinc	34		1.1	0.34	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Potassium	840	B	27	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1
Sodium	1500	B	53	7.0	mg/Kg	☼	03/09/17 14:42	03/10/17 22:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Barium	0.41	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B01 (0-2)

Lab Sample ID: 500-124772-12

Date Collected: 03/07/17 12:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:03	1
Chromium	0.013	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Cobalt	0.020	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Iron	0.29	J B ^	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:03	1
Magnesium	130		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:03	1
Manganese	5.1		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Nickel	0.019	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Potassium	1.3	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:03	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:03	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.97		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:16	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.019	0.0097	mg/Kg	☼	03/10/17 15:00	03/13/17 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.15	mg/Kg	☼	03/08/17 16:40	03/09/17 16:25	1
pH	8.8		0.2	0.2	SU			03/10/17 19:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B02 (0-2)

Lab Sample ID: 500-124772-13

Date Collected: 03/07/17 12:10

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.055		0.023	0.010	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Bromomethane	<0.0057		0.0057	0.0022	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
2-Butanone (MEK)	0.011		0.0057	0.0025	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Chlorobenzene	<0.0023		0.0023	0.00085	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Dibromochloromethane	<0.0023		0.0023	0.00075	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,1-Dichloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00081	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Methylene Chloride	<0.0057		0.0057	0.0023	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Toluene	<0.0023		0.0023	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00098	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1
Xylenes, Total	<0.0046		0.0046	0.00073	mg/Kg	☼	03/08/17 09:19	03/09/17 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	03/08/17 09:19	03/09/17 19:36	1
Dibromofluoromethane	90		75 - 120	03/08/17 09:19	03/09/17 19:36	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 134	03/08/17 09:19	03/09/17 19:36	1
Toluene-d8 (Surr)	91		75 - 123	03/08/17 09:19	03/09/17 19:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Anthracene	0.013	J	0.037	0.0063	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Benzo[a]anthracene	0.056		0.037	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B02 (0-2)

Lab Sample ID: 500-124772-13

Date Collected: 03/07/17 12:10

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.084		0.037	0.0073	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Benzo[b]fluoranthene	0.12		0.037	0.0081	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Benzo[g,h,i]perylene	0.050		0.037	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Benzo[k]fluoranthene	0.043		0.037	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Chrysene	0.066		0.037	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Dibenz(a,h)anthracene	0.035 J		0.037	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Di-n-octyl phthalate	0.067 J		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Fluoranthene	0.12		0.037	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Indeno[1,2,3-cd]pyrene	0.053		0.037	0.0097	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B02 (0-2)

Lab Sample ID: 500-124772-13

Date Collected: 03/07/17 12:10

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Phenanthrene	0.044		0.037	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
Pyrene	0.14		0.037	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		42 - 115	03/08/17 18:45	03/09/17 18:19	1
2-Fluorophenol	94		40 - 130	03/08/17 18:45	03/09/17 18:19	1
Nitrobenzene-d5	76		33 - 124	03/08/17 18:45	03/09/17 18:19	1
Phenol-d5	93		36 - 123	03/08/17 18:45	03/09/17 18:19	1
Terphenyl-d14	97		25 - 150	03/08/17 18:45	03/09/17 18:19	1
2,4,6-Tribromophenol	79		25 - 130	03/08/17 18:45	03/09/17 18:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.23	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Arsenic	7.3		0.56	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Barium	61		0.56	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Beryllium	0.51		0.22	0.048	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Cadmium	0.22		0.11	0.032	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Chromium	12	B	0.56	0.096	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Cobalt	9.1		0.28	0.063	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Copper	18		0.56	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Iron	16000		11	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Lead	16		0.28	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Magnesium	26000	B	5.6	2.3	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Calcium	84000	B	110	36	mg/Kg	☼	03/09/17 14:42	03/11/17 23:05	10
Manganese	340		0.56	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Nickel	21		0.56	0.15	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Selenium	0.71		0.56	0.28	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Vanadium	18		0.28	0.081	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Zinc	50		1.1	0.35	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Potassium	880	B	28	4.5	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1
Sodium	2000	B	56	7.4	mg/Kg	☼	03/09/17 14:42	03/10/17 22:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Barium	0.58		0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B02 (0-2)

Lab Sample ID: 500-124772-13

Date Collected: 03/07/17 12:10

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 85.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Cobalt	0.024	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:08	1
Magnesium	63		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:08	1
Manganese	9.0		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Nickel	0.010	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Potassium	0.68	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:08	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:08	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:21	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0088	mg/Kg	☼	03/10/17 15:00	03/13/17 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	03/08/17 16:40	03/09/17 16:25	1
pH	8.2		0.2	0.2	SU			03/10/17 19:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B03 (0-2)

Lab Sample ID: 500-124772-14

Date Collected: 03/07/17 12:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	03/08/17 09:19	03/09/17 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	03/08/17 09:19	03/09/17 20:00	1
Dibromofluoromethane	90		75 - 120	03/08/17 09:19	03/09/17 20:00	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 134	03/08/17 09:19	03/09/17 20:00	1
Toluene-d8 (Surr)	90		75 - 123	03/08/17 09:19	03/09/17 20:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Acenaphthylene	0.0058	J	0.038	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Benzo[a]anthracene	0.018	J	0.038	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B03 (0-2)

Lab Sample ID: 500-124772-14

Date Collected: 03/07/17 12:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.046		0.038	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Benzo[b]fluoranthene	0.065		0.038	0.0084	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Benzo[g,h,i]perylene	0.034	J	0.038	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Benzo[k]fluoranthene	0.016	J	0.038	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Chrysene	0.021	J	0.038	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Dibenz(a,h)anthracene	0.034	J	0.038	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Fluoranthene	0.032	J	0.038	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Indeno[1,2,3-cd]pyrene	0.038		0.038	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B03 (0-2)

Lab Sample ID: 500-124772-14

Date Collected: 03/07/17 12:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Phenanthrene	0.011	J	0.038	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
Pyrene	0.032	J	0.038	0.0077	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		42 - 115	03/08/17 18:45	03/09/17 18:44	1
2-Fluorophenol	99		40 - 130	03/08/17 18:45	03/09/17 18:44	1
Nitrobenzene-d5	76		33 - 124	03/08/17 18:45	03/09/17 18:44	1
Phenol-d5	95		36 - 123	03/08/17 18:45	03/09/17 18:44	1
Terphenyl-d14	100		25 - 150	03/08/17 18:45	03/09/17 18:44	1
2,4,6-Tribromophenol	75		25 - 130	03/08/17 18:45	03/09/17 18:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Arsenic	9.0		0.59	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Barium	86		0.59	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Beryllium	0.57		0.24	0.051	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Cadmium	0.33		0.12	0.034	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Chromium	12	B	0.59	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Cobalt	12		0.29	0.067	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Copper	29		0.59	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Iron	21000		12	4.5	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Lead	21		0.29	0.15	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Magnesium	14000	B	5.9	2.4	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Calcium	22000	B	12	3.8	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Manganese	610		0.59	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Nickel	22		0.59	0.16	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Selenium	1.0		0.59	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Vanadium	26		0.29	0.086	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Zinc	65		1.2	0.37	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Potassium	830	B	29	4.8	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1
Sodium	880	B	59	7.8	mg/Kg	☼	03/09/17 14:42	03/10/17 22:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Barium	0.38	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Client Sample ID: 3008-2-B03 (0-2)

Lab Sample ID: 500-124772-14

Date Collected: 03/07/17 12:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	290		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Iron	0.33	J B ^	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:14	1
Magnesium	140		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:14	1
Manganese	0.080		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Potassium	<2.5		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:14	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:14	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:14	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:25	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.018	0.0096	mg/Kg	☼	03/10/17 15:00	03/13/17 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/08/17 16:40	03/09/17 16:26	1
pH	8.4		0.2	0.2	SU			03/10/17 19:26	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-2

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To: _____ (optional)
Contact: Pat Weiss
Company: TERRACON
Address: 135 Ambassador Dr.
Naperville, IL 60540
Phone: (630) 445-0160
Fax: _____
E-Mail: _____

Bill To: _____ (optional)
Contact: _____
Company: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-124772

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>TERRACON</u>		<u>1116 7058 H</u>											
Project Name				Parameter		Matrix							
Project Location/State				Lab Project #									
<u>Pesa Site 2</u>													
Sampler				Lab PM									
<u>Sunakusta Williams</u>				<u>Richard Wright</u>									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	23 Total Inorganics*	PH	TCUP 234	Inorganics	Comments
			Date	Time									
<u>12</u>		<u>3008-2-B01 (0-2)</u>	<u>3/7/17</u>	<u>1220</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>13</u>		<u>3008-2-B02 (0-2)</u>	<u>3/7/17</u>	<u>1210</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>14</u>		<u>3008-2-B03 (0-2)</u>	<u>3/7/17</u>	<u>1200</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		

- Preservative Key
1. HCl, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Pat Weiss</u> Company: <u>TERRACON</u> Date: <u>3/7/17</u> Time: <u>1450</u>	Received By: <u>David Bedin</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1450</u>	Lab Courier: <u>77A</u>
Relinquished By: <u>David Bedin</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1724</u>	Received By: <u>Shawn Scott</u> Company: <u>TA-CH</u> Date: <u>3/8/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

* No Aluminum

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-124772-2

Login Number: 124772

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3,3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAI 55-East Frontage Road, Southwest of Black Rd Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

East Frontage Road (Northbound) IDOT STA 241+50 to 242+90 and 244+80 to 251+00 (ISGS Site 3008-3)

City: Joliet State: IL Zip Code: 60404

County: Will Township: Joliet

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.53589 Longitude: -88.17957

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAI 55-East Frontage Road, Southwest of Black Rc

Latitude: 41.53589 Longitude: -88.17957

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

Soil from borings B01, B03, B04, and B05 were sampled adjacent to ISGS Site No 3008-3. See Exhibits 2, 2A, 2B and Table 6 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J124772-3. Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

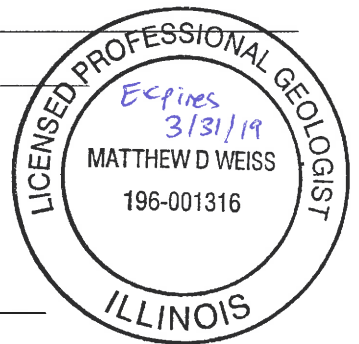
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 135 Ambassador Drive
 City: Naperville State: IL Zip Code: 60540
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

[Signature]
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

4/13/17
 Date:



Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-3)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-3-B01 (0-2)	3008-3-B01 (0-2) Dup	3008-3-B03 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Semivolatile Organic Analytical Parameters								
Acenaphthylene	mg/kg	0.03	0.07	85		0.013	0.011	0.0097
Anthracene	mg/kg	0.25	0.4	12000		0.028	0.016	<0.036
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.16	0.13	0.027
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.18	0.18	0.062
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.28	0.3	0.098
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.091	0.11	0.047
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.11	0.11	0.029
Chrysene	mg/kg	1.2	2.7	88		0.17	0.16	0.032
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.046	0.05	0.033
Fluoranthene	mg/kg	2.7	4.1	3100		0.41	0.26	0.044
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.093	0.11	0.046
Phenanthrene	mg/kg	1.3	2.5	210		0.11	0.048	0.0095
Pyrene	mg/kg	1.9	3.0	2300		0.38	0.26	0.051
Di-n-octylphthalate	mg/kg	---	---	1600		0.07	<0.19	<0.18
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		7.1	5.8	2.6
Barium	mg/kg	---	110	1500		70	50	20
Cadmium	mg/kg	---	0.6	5.2		0.23	0.24	0.14
Chromium, total	mg/kg	---	16.2	21		11	10	5.7
Lead	mg/kg	---	36	107		18	33	12
Mercury	mg/kg	---	0.06	0.1		<0.019	<0.017	<0.018
Selenium	mg/kg	---	0.48	1.3		0.95	0.79	0.52
Silver	mg/kg	---	0.55	4.4		<0.29	<0.27	<0.27
Antimony	mg/kg	---	4.0	5		0.39	<1.1	<1.1
Beryllium	mg/kg	---	0.59	22		0.53	0.36	0.21
Calcium	mg/kg	---	9,300	---		99000	140000	190000
Cobalt	mg/kg	---	8.9	20		9.7	6.8	3.7
Copper	mg/kg	---	19.6	2900		14	15	7
Cyanide	mg/kg	---	0.51	---		<0.57	<0.53	<0.53
Iron	mg/kg	---	15,900	15000		15000	12000	7500
Magnesium	mg/kg	---	4,820	325000		36000	46000	120000
Manganese	mg/kg	---	636	630		760	490	290
Nickel	mg/kg	---	18	100		18	16	6.5
Potassium	mg/kg	---	1,268	---		890	720	550
Sodium	mg/kg	---	130	---		1500	1000	290
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.55	<0.54
Vanadium	mg/kg	---	25.2	550		18	14	11
Zinc	mg/kg	---	95	5100		44	48	21
pH			6.25	9		8.9	9.0	8.6

Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-3)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-3-B01 (0-2)	3008-3-B01 (0-2) Dup	3008-3-B03 (0-2)
				CCDD	Sample Depth (feet)	(0-2)	(0-2)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		--	1	0.32
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.33	0.3	0.25
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		350	330	300
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		110	150	170
Manganese,TCLP	mg/L	---	---	---		0.12	0.61	1.9
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.01
Potassium,TCLP	mg/L	---	---	---		0.85	0.88	1.2
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	<0.50	0.037

Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-3)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-3-B04 (0-5)	3008-3-B04 (5-9)	3008-3-B05 (0-2)
				CCDD	Sample Depth (feet)	(0-5)	(5-9)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Semivolatile Organic Analytical Parameters								
Acenaphthylene	mg/kg	0.03	0.07	85		<0.036	<0.034	<0.041
Anthracene	mg/kg	0.25	0.4	12000		<0.036	<0.034	<0.041
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0081	<0.034	0.015
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.034	0.025	0.045
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.039	0.025	0.056
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.027	0.021	0.034
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.036	<0.034	0.013
Chrysene	mg/kg	1.2	2.7	88		0.011	<0.034	0.02
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.036	<0.034	<0.041
Fluoranthene	mg/kg	2.7	4.1	3100		0.014	<0.034	0.031
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.031	0.025	0.039
Phenanthrene	mg/kg	1.3	2.5	210		0.0053	<0.034	0.011
Pyrene	mg/kg	1.9	3.0	2300		0.013	<0.034	0.026
Di-n-octylphthalate	mg/kg	---	---	1600		0.065	<0.17	<0.21
Inorganic Analytical Parameters								
Arsenic	mg/kg	---	13	11.3		5.8	3.2	7.2
Barium	mg/kg	---	110	1500		55	6.3	99
Cadmium	mg/kg	---	0.6	5.2		0.23	0.11	0.32
Chromium, total	mg/kg	---	16.2	21		8.6	4.1	16
Lead	mg/kg	---	36	107		21	3.2	29
Mercury	mg/kg	---	0.06	0.1		0.023	<0.017	0.041
Selenium	mg/kg	---	0.48	1.3		0.45	0.28	0.87
Silver	mg/kg	---	0.55	4.4		<0.26	<0.26	<0.30
Antimony	mg/kg	---	4.0	5		0.22	<1.0	<1.2
Beryllium	mg/kg	---	0.59	22		0.41	0.11	0.7
Calcium	mg/kg	---	9,300	---		64000	210000	7800
Cobalt	mg/kg	---	8.9	20		6.5	2.5	9.8
Copper	mg/kg	---	19.6	2900		11	6.8	13
Cyanide	mg/kg	---	0.51	---		<0.50	<0.50	<0.59
Iron	mg/kg	---	15,900	15000		12000	4900	18000
Magnesium	mg/kg	---	4,820	325000		25000	120000	5500
Manganese	mg/kg	---	636	630		540	260	660
Nickel	mg/kg	---	18	100		14	6	21
Potassium	mg/kg	---	1,268	---		640	460	1100
Sodium	mg/kg	---	130	---		210	210	210
Thallium	mg/kg	---	0.32	2.6		<0.52	<0.52	<0.60
Vanadium	mg/kg	---	25.2	550		15	4.7	26
Zinc	mg/kg	---	95	5100		48	18	71
pH			6.25	9		8.3	8.7	8.0

Comparison of Detected Constituents to MACs-PTB 174-009; Work Order: 024A
Preliminary Site Investigation
FAI 55-East Frontage Rd-Southwest of Black Rd (PESA #3008-3)
Joliet, Will County, IL
Terracon Project No. 11167058H
Page 4 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3008-3-B04 (0-5)	3008-3-B04 (5-9)	3008-3-B05 (0-2)
				CCDD	Sample Depth (feet)	(0-5)	(5-9)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/07/2017	03/07/2017	03/07/2017
Inorganic Analytical Parameters (SPLP)								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		--	<0.025	--
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
Inorganic Analytical Parameters (TCLP)								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.37	0.072	0.44
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		300	370	260
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	0.25	0.2
Magnesium,TCLP	mg/L	---	---	---		160	130	140
Manganese,TCLP	mg/L	---	---	---		0.042	1.2	0.04
Nickel,TCLP	mg/L	---	---	---		<0.025	0.014	<0.025
Potassium,TCLP	mg/L	---	---	---		0.95	1	1.5
Sodium,TCLP	mg/L	---	---	---		--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	<0.50	<0.50

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 500-124772-3
Client Project/Site: IDOT - Joliet - WO 24

For:
Terracon Consulting Eng & Scientists
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Authorized for release by:
3/17/2017 8:18:43 AM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Job ID: 500-124772-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-124772-3

Comments

No additional comments.

Receipt

The samples were received on 3/7/2017 5:24 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.4° C.

Did not receive a Cyanide bottle for laboratory sample 22 (3008-3-G01) due to limited sample volume in the field.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for 375574 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: 3008-3-G01 (500-124772-22).

The sample was analyzed within 7 days per EPA recommendation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-375241 recovered outside control limits for 9 analytes. The % recoveries were within limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-375147 and analytical batch 500-375399 contained Magnesium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The continuing calibration blanks (CCB) contained Iron above the reporting limit (RL). The samples 3008-3-B01 (0-2) (500-124772-15), 3008-3-B01 (0-2) Dup (500-124772-16), 3008-3-B02 (0-2) (500-124772-17), 3008-3-B03 (0-2) (500-124772-18), 3008-3-B04 (0-5) (500-124772-19), 3008-3-B04 (5-9) (500-124772-20) and 3008-3-B05 (0-2) (500-124772-21) associated with this CCB did not contain the target compound; therefore, re-analysis of samples was not performed.

Method(s) 6020A: The initial calibration verification low level (ICVL) result for batch 500-375536 was above the upper control limit for Be. The samples associated with the ICVL were bracketed by CCVL that were within control limits. Also, the MB and Ics were also within control limits. The samples were reported.

Method(s) 6020A: The continuing calibration verifications (CCV) associated with batch 500-375684 recovered above the upper control limit for Antimony and Thallium. The associated low level CCVs were within control limits. The samples associated with these CCVs were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 3008-3-B01 (0-2) (500-124772-15), 3008-3-B01 (0-2) Dup (500-124772-16), 3008-3-B02 (0-2) (500-124772-17), 3008-3-B03 (0-2) (500-124772-18), 3008-3-B04 (0-5) (500-124772-19), 3008-3-B04 (5-9) (500-124772-20) and 3008-3-B05 (0-2) (500-124772-21).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Job ID: 500-124772-3 (Continued)

Laboratory: TestAmerica Chicago (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2)

Lab Sample ID: 500-124772-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.013	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.028	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.16		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.18		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.28		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.091		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.17		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.046		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Di-n-octyl phthalate	0.070	J	0.20	0.063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.41		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.093		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.38		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.39	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	70		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	760		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.95		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	44		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	890	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.85	J	2.5	0.50	mg/L	1		6010B	TCLP
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-3-B01 (0-2) Dup

Lab Sample ID: 500-124772-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.011	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.016	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.18		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.30		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2) Dup (Continued)

Lab Sample ID: 500-124772-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.16		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.050		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.26		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.26		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.36		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	10	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	46000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	140000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	490		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.79		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	720	B	27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000	B	55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.88	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-3-B02 (0-2)

Lab Sample ID: 500-124772-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.021	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.030	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.18		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.42		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.18		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.22		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.036	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.38		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0069	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.46		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B02 (0-2) (Continued)

Lab Sample ID: 500-124772-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	5.1		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	74		0.54	0.098	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.45		0.21	0.046	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.28		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	11	B	0.54	0.092	mg/Kg	1		☼	6010B	Total/NA
Cobalt	7.4		0.27	0.060	mg/Kg	1		☼	6010B	Total/NA
Copper	13		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	12000		11	4.1	mg/Kg	1		☼	6010B	Total/NA
Lead	33		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	42000	B	5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	140000	B	110	34	mg/Kg	10		☼	6010B	Total/NA
Manganese	730		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	15		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.69		0.54	0.26	mg/Kg	1		☼	6010B	Total/NA
Vanadium	16		0.27	0.078	mg/Kg	1		☼	6010B	Total/NA
Zinc	52		1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	680	B	27	4.4	mg/Kg	1		☼	6010B	Total/NA
Sodium	1700	B	54	7.1	mg/Kg	1		☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	0.67	J	2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.019		0.017	0.0088	mg/Kg	1		☼	7471B	Total/NA
Cyanide, Total	0.15	J	0.40	0.13	mg/Kg	1		☼	9014	Total/NA
pH	8.6		0.2	0.2	SU	1			9045D	Total/NA

Client Sample ID: 3008-3-B03 (0-2)

Lab Sample ID: 500-124772-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthylene	0.0097	J	0.036	0.0047	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]anthracene	0.027	J	0.036	0.0048	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.062		0.036	0.0070	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	0.098		0.036	0.0078	mg/Kg	1		☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.047		0.036	0.012	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.036	0.011	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.032	J	0.036	0.0098	mg/Kg	1		☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.033	J	0.036	0.0070	mg/Kg	1		☼	8270D	Total/NA
Fluoranthene	0.044		0.036	0.0067	mg/Kg	1		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.046		0.036	0.0093	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.0095	J	0.036	0.0050	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.051		0.036	0.0072	mg/Kg	1		☼	8270D	Total/NA
Arsenic	2.6		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	20		0.54	0.099	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.21	J	0.22	0.047	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.14		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	5.7	B	0.54	0.093	mg/Kg	1		☼	6010B	Total/NA
Cobalt	3.7		0.27	0.061	mg/Kg	1		☼	6010B	Total/NA
Copper	7.0		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B03 (0-2) (Continued)

Lab Sample ID: 500-124772-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7500		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000	B	54	22	mg/Kg	10	☼	6010B	Total/NA
Calcium	190000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	290		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.5		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	21		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	550	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	290	B	54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-3-B04 (0-5)

Lab Sample ID: 500-124772-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0081	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.034	J	0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.039		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Di-n-octyl phthalate	0.065	J	0.18	0.060	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0053	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.22	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.8		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.6	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	100	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	540		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (0-5) (Continued)

Lab Sample ID: 500-124772-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	48		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	640	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	160		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.95	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.023		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-3-B04 (5-9)

Lab Sample ID: 500-124772-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.025	J	0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.025	J	0.034	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.034	0.0090	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.2		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	6.3		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.11	J	0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.1	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.5		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	6.8		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	4900		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	3.2		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000	B	52	21	mg/Kg	10	☼	6010B	Total/NA
Calcium	210000	B	100	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	260		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.0		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	4.7		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	18		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	460	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.072	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.25	J B ^	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-3-B05 (0-2)

Lab Sample ID: 500-124772-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.045		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B05 (0-2) (Continued)

Lab Sample ID: 500-124772-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.056		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.031	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.039	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.026	J	0.041	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.2		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	99		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	29		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5500	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	7800	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	660		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.87		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100	B	30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.20	J B ^	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.041		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: 3008-3-G01

Lab Sample ID: 500-124772-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0019	J	0.0030	0.0010	mg/L	1		6020A	Total Recoverable
Arsenic	0.067		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.25		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Beryllium	0.00080	J ^	0.0020	0.00047	mg/L	2		6020A	Total Recoverable
Cadmium	0.0016		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	290		0.40	0.21	mg/L	2		6020A	Total Recoverable
Chromium	0.051		0.0050	0.00061	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-G01 (Continued)

Lab Sample ID: 500-124772-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.040		0.0020	0.00038	mg/L	2		6020A	Total Recoverable
Copper	0.15		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	82		0.20	0.052	mg/L	2		6020A	Total Recoverable
Lead	0.070		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	140		0.40	0.17	mg/L	2		6020A	Total Recoverable
Manganese	2.8		0.0050	0.0020	mg/L	2		6020A	Total Recoverable
Nickel	0.074		0.0040	0.0011	mg/L	2		6020A	Total Recoverable
Potassium	6.7		1.0	0.38	mg/L	2		6020A	Total Recoverable
Selenium	0.0032		0.0025	0.00083	mg/L	1		6020A	Total Recoverable
Silver	0.00011	J	0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	250		0.40	0.18	mg/L	2		6020A	Total Recoverable
Thallium	0.0026		0.0020	0.00059	mg/L	1		6020A	Total Recoverable
Vanadium	0.045		0.010	0.0043	mg/L	2		6020A	Total Recoverable
Zinc	0.39		0.040	0.0092	mg/L	2		6020A	Total Recoverable
Mercury	0.00034		0.00020	0.00011	mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-124772-15	3008-3-B01 (0-2)	Solid	03/07/17 09:20	03/07/17 17:24
500-124772-16	3008-3-B01 (0-2) Dup	Solid	03/07/17 09:20	03/07/17 17:24
500-124772-17	3008-3-B02 (0-2)	Solid	03/07/17 09:30	03/07/17 17:24
500-124772-18	3008-3-B03 (0-2)	Solid	03/07/17 09:35	03/07/17 17:24
500-124772-19	3008-3-B04 (0-5)	Solid	03/07/17 09:55	03/07/17 17:24
500-124772-20	3008-3-B04 (5-9)	Solid	03/07/17 10:00	03/07/17 17:24
500-124772-21	3008-3-B05 (0-2)	Solid	03/07/17 10:15	03/07/17 17:24
500-124772-22	3008-3-G01	Water	03/07/17 12:50	03/07/17 17:24



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2)

Lab Sample ID: 500-124772-15

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	03/08/17 09:19	03/09/17 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	03/08/17 09:19	03/09/17 20:25	1
Dibromofluoromethane	95		75 - 120	03/08/17 09:19	03/09/17 20:25	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 134	03/08/17 09:19	03/09/17 20:25	1
Toluene-d8 (Surr)	86		75 - 123	03/08/17 09:19	03/09/17 20:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Acenaphthylene	0.013	J	0.039	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Anthracene	0.028	J	0.039	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Benzo[a]anthracene	0.16		0.039	0.0052	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2)

Lab Sample ID: 500-124772-15

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.18		0.039	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Benzo[b]fluoranthene	0.28		0.039	0.0084	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Benzo[g,h,i]perylene	0.091		0.039	0.013	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Benzo[k]fluoranthene	0.11		0.039	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Chrysene	0.17		0.039	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Dibenz(a,h)anthracene	0.046		0.039	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Di-n-octyl phthalate	0.070	J	0.20	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Fluoranthene	0.41		0.039	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Indeno[1,2,3-cd]pyrene	0.093		0.039	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2)

Lab Sample ID: 500-124772-15

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Phenanthrene	0.11		0.039	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
Pyrene	0.38		0.039	0.0077	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		42 - 115	03/08/17 18:45	03/09/17 19:09	1
2-Fluorophenol	104		40 - 130	03/08/17 18:45	03/09/17 19:09	1
Nitrobenzene-d5	80		33 - 124	03/08/17 18:45	03/09/17 19:09	1
Phenol-d5	97		36 - 123	03/08/17 18:45	03/09/17 19:09	1
Terphenyl-d14	107		25 - 150	03/08/17 18:45	03/09/17 19:09	1
2,4,6-Tribromophenol	70		25 - 130	03/08/17 18:45	03/09/17 19:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.2	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Arsenic	7.1		0.58	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Barium	70		0.58	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Beryllium	0.53		0.23	0.050	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Cadmium	0.23		0.12	0.034	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Chromium	11	B	0.58	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Cobalt	9.7		0.29	0.066	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Copper	14		0.58	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Iron	15000		12	4.5	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Lead	18		0.29	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Magnesium	36000	B	5.8	2.4	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Calcium	99000	B	120	37	mg/Kg	☼	03/09/17 14:42	03/11/17 23:09	10
Manganese	760		0.58	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Nickel	18		0.58	0.16	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Selenium	0.95		0.58	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Vanadium	18		0.29	0.085	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Zinc	44		1.2	0.37	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Potassium	890	B	29	4.7	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1
Sodium	1500	B	58	7.7	mg/Kg	☼	03/09/17 14:42	03/10/17 22:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Barium	0.33	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2)

Lab Sample ID: 500-124772-15

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:18	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:18	1
Magnesium	110		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:18	1
Manganese	0.12		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Potassium	0.85 J		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:18	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:18	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:37	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.010	mg/Kg	☼	03/10/17 15:00	03/13/17 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/08/17 16:40	03/09/17 16:26	1
pH	8.9		0.2	0.2	SU			03/10/17 19:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2) Dup

Lab Sample ID: 500-124772-16

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	03/08/17 09:19	03/09/17 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 120	03/08/17 09:19	03/09/17 20:49	1
Dibromofluoromethane	90		75 - 120	03/08/17 09:19	03/09/17 20:49	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 134	03/08/17 09:19	03/09/17 20:49	1
Toluene-d8 (Surr)	89		75 - 123	03/08/17 09:19	03/09/17 20:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Acenaphthylene	0.011	J	0.038	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Anthracene	0.016	J	0.038	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Benzo[a]anthracene	0.13		0.038	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2) Dup

Lab Sample ID: 500-124772-16

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.18		0.038	0.0074	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Benzo[b]fluoranthene	0.30		0.038	0.0083	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Benzo[g,h,i]perylene	0.11		0.038	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Benzo[k]fluoranthene	0.11		0.038	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Chrysene	0.16		0.038	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Dibenz(a,h)anthracene	0.050		0.038	0.0074	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Fluoranthene	0.26		0.038	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.0099	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2) Dup

Lab Sample ID: 500-124772-16

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Phenanthrene	0.048		0.038	0.0053	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
Pyrene	0.26		0.038	0.0076	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		42 - 115	03/08/17 18:45	03/09/17 19:33	1
2-Fluorophenol	99		40 - 130	03/08/17 18:45	03/09/17 19:33	1
Nitrobenzene-d5	77		33 - 124	03/08/17 18:45	03/09/17 19:33	1
Phenol-d5	96		36 - 123	03/08/17 18:45	03/09/17 19:33	1
Terphenyl-d14	111		25 - 150	03/08/17 18:45	03/09/17 19:33	1
2,4,6-Tribromophenol	72		25 - 130	03/08/17 18:45	03/09/17 19:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Arsenic	5.8		0.55	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Barium	50		0.55	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Beryllium	0.36		0.22	0.047	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Cadmium	0.24		0.11	0.032	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Chromium	10	B	0.55	0.094	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Cobalt	6.8		0.27	0.062	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Copper	15		0.55	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Iron	12000		11	4.2	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Lead	33		0.27	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Magnesium	46000	B	5.5	2.2	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Calcium	140000	B	110	35	mg/Kg	☼	03/09/17 14:42	03/11/17 23:12	10
Manganese	490		0.55	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Nickel	16		0.55	0.15	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Selenium	0.79		0.55	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Vanadium	14		0.27	0.080	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Zinc	48		1.1	0.35	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Potassium	720	B	27	4.5	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1
Sodium	1000	B	55	7.2	mg/Kg	☼	03/09/17 14:42	03/10/17 22:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Barium	0.30	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B01 (0-2) Dup

Lab Sample ID: 500-124772-16

Date Collected: 03/07/17 09:20

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 84.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:23	1
Magnesium	150		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:23	1
Manganese	0.61		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Potassium	0.88 J		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:23	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:23	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:35	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:41	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0090	mg/Kg	☼	03/10/17 15:00	03/13/17 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	03/08/17 16:40	03/09/17 16:26	1
pH	9.0		0.2	0.2	SU			03/10/17 19:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B02 (0-2)

Lab Sample ID: 500-124772-17

Date Collected: 03/07/17 09:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	03/08/17 09:19	03/10/17 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	03/08/17 09:19	03/10/17 15:54	1
Dibromofluoromethane	92		75 - 120	03/08/17 09:19	03/10/17 15:54	1
1,2-Dichloroethane-d4 (Surr)	93		69 - 134	03/08/17 09:19	03/10/17 15:54	1
Toluene-d8 (Surr)	87		75 - 123	03/08/17 09:19	03/10/17 15:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Acenaphthylene	0.021	J	0.038	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Anthracene	0.030	J	0.038	0.0063	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Benzo[a]anthracene	0.18		0.038	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B02 (0-2)

Lab Sample ID: 500-124772-17

Date Collected: 03/07/17 09:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.24		0.038	0.0073	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Benzo[b]fluoranthene	0.42		0.038	0.0082	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Benzo[k]fluoranthene	0.18		0.038	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Chrysene	0.22		0.038	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Dibenz(a,h)anthracene	0.036 J		0.038	0.0073	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Fluoranthene	0.38		0.038	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Fluorene	0.0069 J		0.038	0.0053	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.0098	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B02 (0-2)

Lab Sample ID: 500-124772-17

Date Collected: 03/07/17 09:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Phenanthrene	0.11		0.038	0.0053	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
Pyrene	0.46		0.038	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		42 - 115	03/08/17 18:45	03/09/17 20:24	1
2-Fluorophenol	100		40 - 130	03/08/17 18:45	03/09/17 20:24	1
Nitrobenzene-d5	77		33 - 124	03/08/17 18:45	03/09/17 20:24	1
Phenol-d5	95		36 - 123	03/08/17 18:45	03/09/17 20:24	1
Terphenyl-d14	130		25 - 150	03/08/17 18:45	03/09/17 20:24	1
2,4,6-Tribromophenol	86		25 - 130	03/08/17 18:45	03/09/17 20:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Arsenic	5.1		0.54	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Barium	74		0.54	0.098	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Beryllium	0.45		0.21	0.046	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Cadmium	0.28		0.11	0.031	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Chromium	11	B	0.54	0.092	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Cobalt	7.4		0.27	0.060	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Copper	13		0.54	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Iron	12000		11	4.1	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Lead	33		0.27	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Magnesium	42000	B	5.4	2.2	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Calcium	140000	B	110	34	mg/Kg	☼	03/09/17 14:42	03/11/17 23:16	10
Manganese	730		0.54	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Nickel	15		0.54	0.15	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Selenium	0.69		0.54	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Vanadium	16		0.27	0.078	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Zinc	52		1.1	0.34	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Potassium	680	B	27	4.4	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1
Sodium	1700	B	54	7.1	mg/Kg	☼	03/09/17 14:42	03/10/17 22:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Barium	0.25	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B02 (0-2)

Lab Sample ID: 500-124772-17

Date Collected: 03/07/17 09:30

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 87.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:31	1
Magnesium	160		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:31	1
Manganese	1.1		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Potassium	0.67 J		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:31	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:31	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.82		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:45	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0088	mg/Kg	☼	03/10/17 15:00	03/13/17 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.15 J		0.40	0.13	mg/Kg	☼	03/08/17 16:40	03/09/17 16:27	1
pH	8.6		0.2	0.2	SU			03/10/17 19:41	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B03 (0-2)

Lab Sample ID: 500-124772-18

Date Collected: 03/07/17 09:35

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 120	03/08/17 09:19	03/10/17 16:18	1
Dibromofluoromethane	92		75 - 120	03/08/17 09:19	03/10/17 16:18	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 134	03/08/17 09:19	03/10/17 16:18	1
Toluene-d8 (Surr)	90		75 - 123	03/08/17 09:19	03/10/17 16:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Acenaphthylene	0.0097	J	0.036	0.0047	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Benzo[a]anthracene	0.027	J	0.036	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B03 (0-2)

Lab Sample ID: 500-124772-18

Date Collected: 03/07/17 09:35

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.062		0.036	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Benzo[b]fluoranthene	0.098		0.036	0.0078	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Benzo[g,h,i]perylene	0.047		0.036	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Benzo[k]fluoranthene	0.029	J	0.036	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Chrysene	0.032	J	0.036	0.0098	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Dibenz(a,h)anthracene	0.033	J	0.036	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Fluoranthene	0.044		0.036	0.0067	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Hexachlorobenzene	<0.073		0.073	0.0083	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Indeno[1,2,3-cd]pyrene	0.046		0.036	0.0093	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2-Methylnaphthalene	<0.073		0.073	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B03 (0-2)

Lab Sample ID: 500-124772-18

Date Collected: 03/07/17 09:35

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Phenanthrene	0.0095	J	0.036	0.0050	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
Pyrene	0.051		0.036	0.0072	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		42 - 115	03/08/17 18:45	03/09/17 19:58	1
2-Fluorophenol	83		40 - 130	03/08/17 18:45	03/09/17 19:58	1
Nitrobenzene-d5	67		33 - 124	03/08/17 18:45	03/09/17 19:58	1
Phenol-d5	81		36 - 123	03/08/17 18:45	03/09/17 19:58	1
Terphenyl-d14	99		25 - 150	03/08/17 18:45	03/09/17 19:58	1
2,4,6-Tribromophenol	67		25 - 130	03/08/17 18:45	03/09/17 19:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Arsenic	2.6		0.54	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Barium	20		0.54	0.099	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Beryllium	0.21	J	0.22	0.047	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Cadmium	0.14		0.11	0.031	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Chromium	5.7	B	0.54	0.093	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Cobalt	3.7		0.27	0.061	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Copper	7.0		0.54	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Iron	7500		11	4.2	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Lead	12		0.27	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Magnesium	120000	B	54	22	mg/Kg	☼	03/09/17 14:42	03/11/17 23:20	10
Calcium	190000	B	110	35	mg/Kg	☼	03/09/17 14:42	03/11/17 23:20	10
Manganese	290		0.54	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Nickel	6.5		0.54	0.15	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Selenium	0.52	J	0.54	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Vanadium	11		0.27	0.079	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Zinc	21		1.1	0.34	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Potassium	550	B	27	4.4	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1
Sodium	290	B	54	7.1	mg/Kg	☼	03/09/17 14:42	03/10/17 22:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Barium	0.25	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B03 (0-2)

Lab Sample ID: 500-124772-18

Date Collected: 03/07/17 09:35

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 89.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:36	1
Magnesium	170		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:36	1
Manganese	1.9		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Nickel	0.010	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Potassium	1.2	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:36	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:36	1
Zinc	0.037	J	0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.32		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:49	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0093	mg/Kg	☼	03/10/17 15:00	03/13/17 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	03/08/17 16:40	03/09/17 16:28	1
pH	8.6		0.2	0.2	SU			03/10/17 19:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (0-5)

Lab Sample ID: 500-124772-19

Date Collected: 03/07/17 09:55

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 88.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	03/08/17 09:19	03/10/17 16:42	1
Dibromofluoromethane	88		75 - 120	03/08/17 09:19	03/10/17 16:42	1
1,2-Dichloroethane-d4 (Surr)	87		69 - 134	03/08/17 09:19	03/10/17 16:42	1
Toluene-d8 (Surr)	90		75 - 123	03/08/17 09:19	03/10/17 16:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Benzo[a]anthracene	0.0081	J	0.036	0.0049	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (0-5)

Lab Sample ID: 500-124772-19

Date Collected: 03/07/17 09:55

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.034	J	0.036	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Benzo[b]fluoranthene	0.039		0.036	0.0079	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Benzo[g,h,i]perylene	0.027	J	0.036	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Chrysene	0.011	J	0.036	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Di-n-octyl phthalate	0.065	J	0.18	0.060	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Fluoranthene	0.014	J	0.036	0.0068	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.036	0.0095	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2-Methylnaphthalene	<0.074		0.074	0.0067	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (0-5)

Lab Sample ID: 500-124772-19

Date Collected: 03/07/17 09:55

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Phenanthrene	0.0053	J	0.036	0.0051	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
Pyrene	0.013	J	0.036	0.0073	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		42 - 115	03/08/17 18:45	03/09/17 16:14	1
2-Fluorophenol	101		40 - 130	03/08/17 18:45	03/09/17 16:14	1
Nitrobenzene-d5	82		33 - 124	03/08/17 18:45	03/09/17 16:14	1
Phenol-d5	76		36 - 123	03/08/17 18:45	03/09/17 16:14	1
Terphenyl-d14	92		25 - 150	03/08/17 18:45	03/09/17 16:14	1
2,4,6-Tribromophenol	85		25 - 130	03/08/17 18:45	03/09/17 16:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.0	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Arsenic	5.8		0.52	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Barium	55		0.52	0.096	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Beryllium	0.41		0.21	0.045	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Cadmium	0.23		0.10	0.030	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Chromium	8.6	B	0.52	0.090	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Cobalt	6.5		0.26	0.059	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Copper	11		0.52	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Iron	12000		10	4.0	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Lead	21		0.26	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Magnesium	25000	B	5.2	2.1	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Calcium	64000	B	100	34	mg/Kg	☼	03/09/17 14:42	03/11/17 23:24	10
Manganese	540		0.52	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Nickel	14		0.52	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Selenium	0.45	J	0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Vanadium	15		0.26	0.076	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Zinc	48		1.0	0.33	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Potassium	640	B	26	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1
Sodium	210	B	52	6.9	mg/Kg	☼	03/09/17 14:42	03/10/17 22:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Barium	0.37	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (0-5)

Lab Sample ID: 500-124772-19

Date Collected: 03/07/17 09:55

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 88.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Iron	<0.40		0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:50	1
Magnesium	160		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:50	1
Manganese	0.042		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Potassium	0.95 J		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:50	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:50	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:53	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0096	mg/Kg	☼	03/10/17 15:00	03/13/17 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	03/08/17 16:40	03/09/17 16:28	1
pH	8.3		0.2	0.2	SU			03/10/17 20:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (5-9)

Lab Sample ID: 500-124772-20

Date Collected: 03/07/17 10:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	03/08/17 09:19	03/10/17 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	03/08/17 09:19	03/10/17 17:07	1
Dibromofluoromethane	91		75 - 120	03/08/17 09:19	03/10/17 17:07	1
1,2-Dichloroethane-d4 (Surr)	89		69 - 134	03/08/17 09:19	03/10/17 17:07	1
Toluene-d8 (Surr)	89		75 - 123	03/08/17 09:19	03/10/17 17:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Acenaphthylene	<0.034		0.034	0.0046	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Benzo[a]anthracene	<0.034		0.034	0.0047	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (5-9)

Lab Sample ID: 500-124772-20

Date Collected: 03/07/17 10:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.025	J	0.034	0.0067	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Benzo[b]fluoranthene	0.025	J	0.034	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Benzo[g,h,i]perylene	0.021	J	0.034	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Carbazole	<0.17		0.17	0.087	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Chrysene	<0.034		0.034	0.0095	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Diethyl phthalate	<0.17		0.17	0.059	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Di-n-octyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Hexachloroethane	<0.17		0.17	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Indeno[1,2,3-cd]pyrene	0.025	J	0.034	0.0090	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2-Methylnaphthalene	<0.070		0.070	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2-Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2-Nitroaniline	<0.17		0.17	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
4-Nitroaniline	<0.34		0.34	0.15	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Nitrobenzene	<0.034		0.034	0.0087	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (5-9)

Lab Sample ID: 500-124772-20

Date Collected: 03/07/17 10:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Phenol	<0.17		0.17	0.077	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
Pyrene	<0.034		0.034	0.0069	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	03/08/17 18:45	03/09/17 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		42 - 115	03/08/17 18:45	03/09/17 16:39	1
2-Fluorophenol	104		40 - 130	03/08/17 18:45	03/09/17 16:39	1
Nitrobenzene-d5	86		33 - 124	03/08/17 18:45	03/09/17 16:39	1
Phenol-d5	78		36 - 123	03/08/17 18:45	03/09/17 16:39	1
Terphenyl-d14	94		25 - 150	03/08/17 18:45	03/09/17 16:39	1
2,4,6-Tribromophenol	79		25 - 130	03/08/17 18:45	03/09/17 16:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Arsenic	3.2		0.52	0.24	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Barium	6.3		0.52	0.095	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Beryllium	0.11	J	0.21	0.045	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Cadmium	0.11		0.10	0.030	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Chromium	4.1	B	0.52	0.090	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Cobalt	2.5		0.26	0.059	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Copper	6.8		0.52	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Iron	4900		10	4.0	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Lead	3.2		0.26	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Magnesium	120000	B	52	21	mg/Kg	☼	03/09/17 14:42	03/11/17 23:28	10
Calcium	210000	B	100	34	mg/Kg	☼	03/09/17 14:42	03/11/17 23:28	10
Manganese	260		0.52	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Nickel	6.0		0.52	0.14	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Selenium	0.28	J	0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Vanadium	4.7		0.26	0.076	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Zinc	18		1.0	0.33	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Potassium	460	B	26	4.3	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1
Sodium	210	B	52	6.9	mg/Kg	☼	03/09/17 14:42	03/10/17 22:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Barium	0.072	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 03:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 03:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 03:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B04 (5-9)

Lab Sample ID: 500-124772-20

Date Collected: 03/07/17 10:00

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 92.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 03:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Iron	0.25	J B ^	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 03:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 03:54	1
Magnesium	130		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:54	1
Manganese	1.2		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Nickel	0.014	J	0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Potassium	1.0	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 03:54	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 03:54	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 03:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/10/17 14:11	03/12/17 01:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 22:58	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 22:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0091	mg/Kg	☼	03/10/17 15:00	03/13/17 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	03/11/17 12:25	03/11/17 15:52	1
pH	8.7		0.2	0.2	SU			03/10/17 20:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B05 (0-2)

Lab Sample ID: 500-124772-21

Date Collected: 03/07/17 10:15

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 78.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	03/08/17 09:19	03/10/17 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 120	03/08/17 09:19	03/10/17 17:31	1
Dibromofluoromethane	93		75 - 120	03/08/17 09:19	03/10/17 17:31	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 134	03/08/17 09:19	03/10/17 17:31	1
Toluene-d8 (Surr)	86		75 - 123	03/08/17 09:19	03/10/17 17:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Anthracene	<0.041		0.041	0.0070	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Benzo[a]anthracene	0.015	J	0.041	0.0056	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B05 (0-2)

Lab Sample ID: 500-124772-21

Date Collected: 03/07/17 10:15

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.045		0.041	0.0081	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Benzo[b]fluoranthene	0.056		0.041	0.0090	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Benzo[g,h,i]perylene	0.034	J	0.041	0.013	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Benzo[k]fluoranthene	0.013	J	0.041	0.012	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Chrysene	0.020	J	0.041	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0081	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.34	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Fluoranthene	0.031	J	0.041	0.0077	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Fluorene	<0.041		0.041	0.0059	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Hexachlorobenzene	<0.084		0.084	0.0097	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Indeno[1,2,3-cd]pyrene	0.039	J	0.041	0.011	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2-Methylnaphthalene	<0.084		0.084	0.0077	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2-Nitrophenol	<0.41		0.41	0.099	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B05 (0-2)

Lab Sample ID: 500-124772-21

Date Collected: 03/07/17 10:15

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Phenanthrene	0.011	J	0.041	0.0058	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
Pyrene	0.026	J	0.041	0.0083	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/08/17 18:45	03/09/17 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		42 - 115	03/08/17 18:45	03/09/17 17:04	1
2-Fluorophenol	88		40 - 130	03/08/17 18:45	03/09/17 17:04	1
Nitrobenzene-d5	72		33 - 124	03/08/17 18:45	03/09/17 17:04	1
Phenol-d5	85		36 - 123	03/08/17 18:45	03/09/17 17:04	1
Terphenyl-d14	85		25 - 150	03/08/17 18:45	03/09/17 17:04	1
2,4,6-Tribromophenol	76		25 - 130	03/08/17 18:45	03/09/17 17:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Arsenic	7.2		0.60	0.28	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Barium	99		0.60	0.11	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Beryllium	0.70		0.24	0.052	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Cadmium	0.32		0.12	0.035	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Chromium	16	B	0.60	0.10	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Cobalt	9.8		0.30	0.068	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Copper	13		0.60	0.13	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Iron	18000		12	4.6	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Lead	29		0.30	0.15	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Magnesium	5500	B	6.0	2.4	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Calcium	7800	B	12	3.8	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Manganese	660		0.60	0.12	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Nickel	21		0.60	0.16	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Selenium	0.87		0.60	0.30	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Vanadium	26		0.30	0.087	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Zinc	71		1.2	0.38	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Potassium	1100	B	30	4.9	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1
Sodium	210	B	60	7.9	mg/Kg	☼	03/09/17 14:42	03/10/17 22:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Barium	0.44	J	0.50	0.050	mg/L		03/10/17 14:13	03/12/17 04:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/17 14:13	03/12/17 04:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/17 14:13	03/12/17 04:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-B05 (0-2)

Lab Sample ID: 500-124772-21

Date Collected: 03/07/17 10:15

Matrix: Solid

Date Received: 03/07/17 17:24

Percent Solids: 78.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260		5.0	0.50	mg/L		03/10/17 14:13	03/12/17 04:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Copper	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Iron	0.20	J B ^	0.40	0.20	mg/L		03/10/17 14:13	03/12/17 04:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/17 14:13	03/12/17 04:06	1
Magnesium	140		2.5	0.50	mg/L		03/10/17 14:13	03/12/17 04:06	1
Manganese	0.040		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Potassium	1.5	J	2.5	0.50	mg/L		03/10/17 14:13	03/12/17 04:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/17 14:13	03/12/17 04:06	1
Silver	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/17 14:13	03/12/17 04:06	1
Zinc	<0.50		0.50	0.020	mg/L		03/10/17 14:13	03/12/17 04:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/10/17 14:13	03/13/17 23:02	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/17 14:13	03/13/17 23:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/17 11:20	03/13/17 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.018	0.0096	mg/Kg	☼	03/10/17 15:00	03/13/17 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/11/17 12:25	03/11/17 15:53	1
pH	8.0		0.2	0.2	SU			03/10/17 20:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-G01

Lab Sample ID: 500-124772-22

Date Collected: 03/07/17 12:50

Matrix: Water

Date Received: 03/07/17 17:24

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			03/14/17 05:11	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/14/17 05:11	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/14/17 05:11	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/14/17 05:11	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/14/17 05:11	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/14/17 05:11	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/14/17 05:11	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/14/17 05:11	1
Chloroethane	<0.0010	F1 *	0.0010	0.00051	mg/L			03/14/17 05:11	1
Chloroform	<0.0020		0.0020	0.00037	mg/L			03/14/17 05:11	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/14/17 05:11	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/14/17 05:11	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/14/17 05:11	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/14/17 05:11	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/14/17 05:11	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/14/17 05:11	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/14/17 05:11	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/14/17 05:11	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/14/17 05:11	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/14/17 05:11	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/14/17 05:11	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/14/17 05:11	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/14/17 05:11	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/14/17 05:11	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/14/17 05:11	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/14/17 05:11	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/14/17 05:11	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/14/17 05:11	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/14/17 05:11	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/14/17 05:11	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/14/17 05:11	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/14/17 05:11	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/14/17 05:11	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/14/17 05:11	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/14/17 05:11	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/14/17 05:11	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/14/17 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		71 - 120		03/14/17 05:11	1
Dibromofluoromethane	95		70 - 120		03/14/17 05:11	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 127		03/14/17 05:11	1
Toluene-d8 (Surr)	99		75 - 120		03/14/17 05:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00079		0.00079	0.00024	mg/L		03/10/17 07:16	03/10/17 15:12	1
Acenaphthylene	<0.00079		0.00079	0.00021	mg/L		03/10/17 07:16	03/10/17 15:12	1
Anthracene	<0.00079		0.00079	0.00026	mg/L		03/10/17 07:16	03/10/17 15:12	1
Benzo[a]anthracene	<0.00013		0.00013	0.000044	mg/L		03/10/17 07:16	03/10/17 15:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-G01

Lab Sample ID: 500-124772-22

Date Collected: 03/07/17 12:50

Matrix: Water

Date Received: 03/07/17 17:24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.00016		0.00016	0.000078	mg/L		03/10/17 07:16	03/10/17 15:12	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000063	mg/L		03/10/17 07:16	03/10/17 15:12	1
Benzo[g,h,i]perylene	<0.00079		0.00079	0.00029	mg/L		03/10/17 07:16	03/10/17 15:12	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000050	mg/L		03/10/17 07:16	03/10/17 15:12	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00022	mg/L		03/10/17 07:16	03/10/17 15:12	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		03/10/17 07:16	03/10/17 15:12	1
Bis(2-ethylhexyl) phthalate	<0.0079		0.0079	0.0013	mg/L		03/10/17 07:16	03/10/17 15:12	1
4-Bromophenyl phenyl ether	<0.0039		0.0039	0.00042	mg/L		03/10/17 07:16	03/10/17 15:12	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		03/10/17 07:16	03/10/17 15:12	1
Carbazole	<0.0039		0.0039	0.00028	mg/L		03/10/17 07:16	03/10/17 15:12	1
4-Chloroaniline	<0.0079		0.0079	0.0016	mg/L		03/10/17 07:16	03/10/17 15:12	1
4-Chloro-3-methylphenol	<0.0079		0.0079	0.0018	mg/L		03/10/17 07:16	03/10/17 15:12	1
2-Chloronaphthalene	<0.0016 *		0.0016	0.00018	mg/L		03/10/17 07:16	03/10/17 15:12	1
2-Chlorophenol	<0.0039		0.0039	0.00044	mg/L		03/10/17 07:16	03/10/17 15:12	1
4-Chlorophenyl phenyl ether	<0.0039		0.0039	0.00050	mg/L		03/10/17 07:16	03/10/17 15:12	1
Chrysene	<0.00016		0.00016	0.000054	mg/L		03/10/17 07:16	03/10/17 15:12	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000040	mg/L		03/10/17 07:16	03/10/17 15:12	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		03/10/17 07:16	03/10/17 15:12	1
1,2-Dichlorobenzene	<0.0016 *		0.0016	0.00019	mg/L		03/10/17 07:16	03/10/17 15:12	1
1,3-Dichlorobenzene	<0.0016 *		0.0016	0.00016	mg/L		03/10/17 07:16	03/10/17 15:12	1
1,4-Dichlorobenzene	<0.0016 *		0.0016	0.00016	mg/L		03/10/17 07:16	03/10/17 15:12	1
3,3'-Dichlorobenzidine	<0.0039		0.0039	0.0013	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,4-Dichlorophenol	<0.0079		0.0079	0.0020	mg/L		03/10/17 07:16	03/10/17 15:12	1
Diethyl phthalate	<0.0016		0.0016	0.00028	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,4-Dimethylphenol	<0.0079		0.0079	0.0014	mg/L		03/10/17 07:16	03/10/17 15:12	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		03/10/17 07:16	03/10/17 15:12	1
Di-n-butyl phthalate	<0.0039		0.0039	0.00057	mg/L		03/10/17 07:16	03/10/17 15:12	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0046	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,4-Dinitrophenol	<0.016		0.016	0.0067	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,4-Dinitrotoluene	<0.00079		0.00079	0.00019	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,6-Dinitrotoluene	<0.00079		0.00079	0.000058	mg/L		03/10/17 07:16	03/10/17 15:12	1
Di-n-octyl phthalate	<0.0079		0.0079	0.00083	mg/L		03/10/17 07:16	03/10/17 15:12	1
Fluoranthene	<0.00079		0.00079	0.00036	mg/L		03/10/17 07:16	03/10/17 15:12	1
Fluorene	<0.00079		0.00079	0.00019	mg/L		03/10/17 07:16	03/10/17 15:12	1
Hexachlorobenzene	<0.00039		0.00039	0.000062	mg/L		03/10/17 07:16	03/10/17 15:12	1
Hexachlorobutadiene	<0.0039 *		0.0039	0.00040	mg/L		03/10/17 07:16	03/10/17 15:12	1
Hexachlorocyclopentadiene	<0.016 *		0.016	0.0050	mg/L		03/10/17 07:16	03/10/17 15:12	1
Hexachloroethane	<0.0039 *		0.0039	0.00047	mg/L		03/10/17 07:16	03/10/17 15:12	1
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000059	mg/L		03/10/17 07:16	03/10/17 15:12	1
Isophorone	<0.0016		0.0016	0.00029	mg/L		03/10/17 07:16	03/10/17 15:12	1
2-Methylnaphthalene	<0.0016 *		0.0016	0.000051	mg/L		03/10/17 07:16	03/10/17 15:12	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		03/10/17 07:16	03/10/17 15:12	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00035	mg/L		03/10/17 07:16	03/10/17 15:12	1
Naphthalene	<0.00079		0.00079	0.00024	mg/L		03/10/17 07:16	03/10/17 15:12	1
2-Nitroaniline	<0.0039		0.0039	0.0010	mg/L		03/10/17 07:16	03/10/17 15:12	1
3-Nitroaniline	<0.0079		0.0079	0.0014	mg/L		03/10/17 07:16	03/10/17 15:12	1
4-Nitroaniline	<0.0079		0.0079	0.0013	mg/L		03/10/17 07:16	03/10/17 15:12	1
Nitrobenzene	<0.00079		0.00079	0.00035	mg/L		03/10/17 07:16	03/10/17 15:12	1
2-Nitrophenol	<0.0079		0.0079	0.0020	mg/L		03/10/17 07:16	03/10/17 15:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Client Sample ID: 3008-3-G01

Lab Sample ID: 500-124772-22

Date Collected: 03/07/17 12:50

Matrix: Water

Date Received: 03/07/17 17:24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.016		0.016	0.0058	mg/L		03/10/17 07:16	03/10/17 15:12	1
N-Nitrosodi-n-propylamine	<0.00039		0.00039	0.00012	mg/L		03/10/17 07:16	03/10/17 15:12	1
N-Nitrosodiphenylamine	<0.00079		0.00079	0.00029	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		03/10/17 07:16	03/10/17 15:12	1
Pentachlorophenol	<0.016		0.016	0.0031	mg/L		03/10/17 07:16	03/10/17 15:12	1
Phenanthrene	<0.00079		0.00079	0.00024	mg/L		03/10/17 07:16	03/10/17 15:12	1
Phenol	<0.0039		0.0039	0.00053	mg/L		03/10/17 07:16	03/10/17 15:12	1
Pyrene	<0.00079		0.00079	0.00033	mg/L		03/10/17 07:16	03/10/17 15:12	1
1,2,4-Trichlorobenzene	<0.0016 *		0.0016	0.00019	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,4,5-Trichlorophenol	<0.0079		0.0079	0.0020	mg/L		03/10/17 07:16	03/10/17 15:12	1
2,4,6-Trichlorophenol	<0.0039		0.0039	0.00056	mg/L		03/10/17 07:16	03/10/17 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		30 - 123	03/10/17 07:16	03/10/17 15:12	1
2-Fluorophenol	51		30 - 110	03/10/17 07:16	03/10/17 15:12	1
Nitrobenzene-d5	74		33 - 139	03/10/17 07:16	03/10/17 15:12	1
Phenol-d5	42		20 - 100	03/10/17 07:16	03/10/17 15:12	1
Terphenyl-d14	61		42 - 150	03/10/17 07:16	03/10/17 15:12	1
2,4,6-Tribromophenol	75		30 - 150	03/10/17 07:16	03/10/17 15:12	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0019	J	0.0030	0.0010	mg/L		03/08/17 13:46	03/09/17 12:37	1
Arsenic	0.067		0.0010	0.00044	mg/L		03/08/17 13:46	03/09/17 12:37	1
Barium	0.25		0.0025	0.00084	mg/L		03/08/17 13:46	03/09/17 12:37	1
Beryllium	0.00080	J ^	0.0020	0.00047	mg/L		03/08/17 13:46	03/10/17 12:42	2
Cadmium	0.0016		0.00050	0.00019	mg/L		03/08/17 13:46	03/09/17 12:37	1
Calcium	290		0.40	0.21	mg/L		03/08/17 13:46	03/10/17 12:42	2
Chromium	0.051		0.0050	0.00061	mg/L		03/08/17 13:46	03/09/17 12:37	1
Cobalt	0.040		0.0020	0.00038	mg/L		03/08/17 13:46	03/10/17 12:42	2
Copper	0.15		0.0020	0.00096	mg/L		03/08/17 13:46	03/09/17 12:37	1
Iron	82		0.20	0.052	mg/L		03/08/17 13:46	03/10/17 12:42	2
Lead	0.070		0.00050	0.00014	mg/L		03/08/17 13:46	03/09/17 12:37	1
Magnesium	140		0.40	0.17	mg/L		03/08/17 13:46	03/10/17 12:42	2
Manganese	2.8		0.0050	0.0020	mg/L		03/08/17 13:46	03/10/17 12:42	2
Nickel	0.074		0.0040	0.0011	mg/L		03/08/17 13:46	03/10/17 12:42	2
Potassium	6.7		1.0	0.38	mg/L		03/08/17 13:46	03/10/17 12:42	2
Selenium	0.0032		0.0025	0.00083	mg/L		03/08/17 13:46	03/09/17 12:37	1
Silver	0.00011	J	0.00050	0.000080	mg/L		03/08/17 13:46	03/09/17 12:37	1
Sodium	250		0.40	0.18	mg/L		03/08/17 13:46	03/10/17 12:42	2
Thallium	0.0026		0.0020	0.00059	mg/L		03/08/17 13:46	03/09/17 12:37	1
Vanadium	0.045		0.010	0.0043	mg/L		03/08/17 13:46	03/10/17 12:42	2
Zinc	0.39		0.040	0.0092	mg/L		03/08/17 13:46	03/10/17 12:42	2

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00034		0.00020	0.00011	mg/L		03/08/17 17:10	03/09/17 12:06	1

TestAmerica Chicago

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Joliet - WO 24

TestAmerica Job ID: 500-124772-3

Laboratory: TestAmerica Chicago

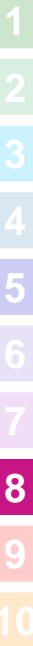
Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To: (optional) Walt Weiss
 Contact: Walt Weiss
 Company: TERRACON
 Address: 135 Ambassador Drive
 Address: Naperville, IL 60540
 Phone: 630-445-0160
 Fax: _____
 E-Mail: _____

Bill To: (optional) _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-124772
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
<u>TERRACON</u>		<u>1116705814</u>										
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM				
		<u>Pesa Site 3</u>				<u>Junaluska Williams</u>		<u>Richard Wright</u>				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	23 Total Inorganics *	PH	23 TCLP Inorganics *	Comments
			Date	Time								
<u>15</u>		<u>3008-3-B01(0-2)</u>	<u>3/7/17</u>	<u>920</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>16</u>		<u>3008-3-B01DUP(0-2)</u>	<u>3/7/17</u>	<u>920</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>17</u>		<u>3008-3-B02(0-2)</u>	<u>3/7/17</u>	<u>930</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>18</u>		<u>3008-3-B03(0-2)</u>	<u>3/7/17</u>	<u>935</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>19</u>		<u>3008-3-B04(0-5)</u>	<u>3/7/17</u>	<u>955</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>20</u>		<u>3008-3-B04(5-9)</u>	<u>3/7/17</u>	<u>1000</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>21</u>		<u>3008-3-B05(0-2)</u>	<u>3/7/17</u>	<u>1015</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Walt Weiss</u> Company: <u>TERRACON</u> Date: <u>3/7/17</u> Time: <u>1450</u>	Received By: <u>David Berlin</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1450</u>
Relinquished By: <u>David Berlin</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1724</u>	Received By: <u>Shirley Cato</u> Company: <u>TA</u> Date: <u>3/8/17</u> Time: <u>0930</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

Matrix Key

- | | |
|--------------------|---------------------|
| WW - Wastewater | SE - Sediment |
| W - Water | SO - Soil |
| S - Soil | L - Leachate |
| SL - Sludge | WI - Wipe |
| MS - Miscellaneous | DW - Drinking Water |
| OL - Oil | O - Other |
| A - Air | |

Client Comments

*No Aluminium

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To: Matt Weiss (optional)
 Contact: _____
 Company: TERRACON
 Address: 135 Ambassador Dr.
 Address: Naperville, IL 60540
 Phone: 630-445-0160
 Fax: _____
 E-Mail: _____

Bill To: _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-124772
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter												Preservative Key		
<u>TERRACON</u>		<u>11167058H</u>																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		Matrix												Comments		
<u>Pesa Site 3</u>				Date Time		<u>VOCs</u>		<u>SVOCs</u>		<u>23761 Mercury</u>										
Project Location/State		Lab PM																		
<u>Pesa Site 3</u>		<u>Richard Wright</u>																		
Sampler		Lab PM																		
<u>Jamalaska Williams</u>		<u>Richard Wright</u>																		
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix													
<u>22</u>		<u>3008-3-601</u>		<u>3/7/17</u>	<u>1250</u>	<u>6</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>										

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Matt Weiss</u> Company: <u>TERRACON</u> Date: <u>3/7/17</u> Time: <u>1450</u>	Received By: <u>David Beem</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1450</u>
Relinquished By: <u>David Beem</u> Company: <u>TA</u> Date: <u>3/7/17</u> Time: <u>1724</u>	Received By: <u>David Beem</u> Company: <u>TA-CAP</u> Date: <u>3/8/17</u> Time: <u>0730</u>

Lab Courier: JD
 Shipped: _____
 Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WL - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments
*No Aluminum

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-124772-3

Login Number: 124772

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3,3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

