

**FINAL  
Preliminary Site  
Investigation Report  
FAI 74 (Interstate 74)  
Moline, Rock Island County,  
Illinois**

**Contract No.: PTB 172-027  
Work Order No. 46  
IDOT Job No.: P-93-032-01  
BDE Sequence No.: 9724A  
Section No.: 81B  
Route: FAI 74  
ISGS Report No.: 1314V3  
Bid Letting Date: June 16, 2017  
Contract No.: 64C08**

**March 17, 2017**

**Prepared for:**



**ILLINOIS DEPARTMENT OF TRANSPORTATION  
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**ecology and environment, inc.**

# Table of Contents

Section	Page
<b>1 Introduction.....</b>	<b>1-1</b>
<b>2 Site Background .....</b>	<b>2-1</b>
<b>3 Field Investigation Procedures.....</b>	<b>3-1</b>
3.1 Soil Boring and Sampling Procedures .....	3-1
3.2 Groundwater Sampling Procedures .....	3-2
<b>4 Field Investigation Results .....</b>	<b>4-1</b>
4.1 Project Area Geology and Topography .....	4-3
4.2 ISGS #1314V3-1 (IDOT ROW) .....	4-4
4.2.1 Field Observations at ISGS #1314V3-1 .....	4-4
4.2.2 Analytical Results for ISGS #1314V3-1 .....	4-4
4.2.2.1 Soil .....	4-4
4.2.2.2 Groundwater.....	4-5
4.2.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-1.....	4-5
4.2.3.1 Soil .....	4-5
4.2.3.2 Groundwater.....	4-6
4.2.4 IDOT Construction Activities at ISGS #1314V3-1 .....	4-6
4.2.4.1 Soil .....	4-6
4.2.4.2 Groundwater.....	4-7
4.3 ISGS #1314V3-2 (Mississippi River).....	4-7
4.3.1 Field Observations at ISGS #1314V3-2 .....	4-7
4.3.2 Analytical Results for ISGS #1314V3-2 .....	4-7
4.3.2.1 Soil .....	4-7
4.3.2.2 Groundwater.....	4-7
4.3.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-2.....	4-8
4.3.3.1 Soil .....	4-8
4.3.3.2 Groundwater.....	4-8
4.3.4 IDOT Construction Activities at ISGS #1314V3-2 .....	4-8
4.3.4.1 Soil .....	4-8
4.3.4.2 Groundwater.....	4-9
4.4 ISGS #1314V3-4 (City of Moline, Water Department).....	4-9
4.4.1 Field Observations at ISGS #1314V3-4 .....	4-9

## Table of Contents (Cont.)

Section	Page
4.4.2	Analytical Results for ISGS #1314V3-4 ..... 4-9
4.4.2.1	Soil ..... 4-9
4.4.2.2	Groundwater..... 4-9
4.4.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-4..... 4-10
4.4.3.1	Soil ..... 4-10
4.4.3.2	Groundwater..... 4-10
4.4.4	IDOT Construction Activities at ISGS #1314V3-4..... 4-10
4.4.4.1	Soil ..... 4-10
4.4.4.2	Groundwater..... 4-11
4.5	ISGS #1314V3-5 (Industrial Building)..... 4-11
4.5.1	Field Observations at ISGS #1314V3-5 ..... 4-11
4.5.2	Analytical Results for ISGS #1314V3-5 ..... 4-11
4.5.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-5..... 4-11
4.5.4	IDOT Construction Activities at ISGS #1314V3-5..... 4-12
4.5.4.1	Soil ..... 4-12
4.6	ISGS #1314V3-6 (Vacant Land) ..... 4-12
4.6.1	Field Observations at ISGS #1314V3-6 ..... 4-12
4.6.2	Analytical Results for ISGS #1314V3-6 ..... 4-13
4.6.2.1	Soil ..... 4-13
4.6.2.2	Groundwater..... 4-13
4.6.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-6..... 4-13
4.6.3.1	Soil ..... 4-13
4.6.3.2	Groundwater..... 4-15
4.6.4	IDOT Construction Activities at ISGS #1314V3-6..... 4-15
4.6.4.1	Soil ..... 4-15
4.6.4.2	Groundwater..... 4-16
4.7	ISGS #1314V3-7 (River Stone Moline Yard) ..... 4-16
4.7.1	Field Observations at ISGS #1314V3-7 ..... 4-16
4.7.2	Analytical Results for ISGS #1314V3-7 ..... 4-16
4.7.2.1	Soil ..... 4-16
4.7.2.2	Groundwater..... 4-17
4.7.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-7..... 4-17
4.7.3.1	Soil ..... 4-17
4.7.3.2	Groundwater..... 4-18
4.7.4	IDOT Construction Activities at ISGS #1314V3-7..... 4-18
4.7.4.1	Soil ..... 4-18
4.7.4.2	Groundwater..... 4-18
4.8	ISGS #1314V3-8 (Commercial Building) ..... 4-19
4.8.1	Field Observations at ISGS #1314V3-8 ..... 4-19
4.8.2	Analytical Results for ISGS #1314V3-8 ..... 4-19

## Table of Contents (Cont.)

Section	Page
4.8.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-8..... 4-19
4.8.4	IDOT Construction Activities at ISGS #1314V3-8..... 4-20
4.8.4.1	Soil ..... 4-20
4.9	ISGS #1314V3-11 (Vacant Land) ..... 4-20
4.9.1	Field Observations at ISGS #1314V3-11 ..... 4-20
4.9.2	Analytical Results for ISGS #1314V3-11 ..... 4-20
4.9.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-11..... 4-20
4.9.4	IDOT Construction Activities at ISGS #1314V3-11 ..... 4-21
4.9.4.1	Soil ..... 4-21
4.10	ISGS #1314V3-17 (Parking Lot)..... 4-21
4.10.1	Field Observations at ISGS #1314V3-17 ..... 4-21
4.10.2	Analytical Results for ISGS #1314V3-17 ..... 4-21
4.10.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-17..... 4-22
4.10.4	IDOT Construction Activities at ISGS #1314V3-17 ..... 4-22
4.10.4.1	Soil ..... 4-22
4.11	ISGS #1314V3-18 (Vacant Land) ..... 4-22
4.11.1	Field Observations at ISGS #1314V3-18 ..... 4-22
4.11.2	Analytical Results for ISGS #1314V3-18 ..... 4-23
4.11.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-18..... 4-23
4.11.4	IDOT Construction Activities at ISGS #1314V3-18 ..... 4-24
4.11.4.1	Soil ..... 4-24
4.12	ISGS #1314V3-21 (BNSF Railroad) ..... 4-25
4.12.1	Field Observations at ISGS #1314V3-21 ..... 4-25
4.12.2	Analytical Results for ISGS #1314V3-21 ..... 4-25
4.12.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-21..... 4-25
4.12.4	IDOT Construction Activities at ISGS #1314V3-21 ..... 4-26
4.12.4.1	Soil ..... 4-26
4.13	ISGS #1314V3-24 (John Deere)..... 4-26
4.13.1	Field Observations at ISGS #1314V3-24 ..... 4-26
4.13.2	Analytical Results for ISGS #1314V3-24 ..... 4-26
4.13.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-24..... 4-27
4.13.4	IDOT Construction Activities at ISGS #1314V3-24 ..... 4-29
4.13.4.1	Soil ..... 4-29
4.14	ISGS #1314V3-25 (Sivyer Steel Corp.)..... 4-29
4.14.1	Field Observations at ISGS #1314V3-25 ..... 4-29
4.14.2	Analytical Results for ISGS #1314V3-25 ..... 4-29
4.14.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-25..... 4-29

## Table of Contents (Cont.)

Section	Page
4.14.4 IDOT Construction Activities at ISGS #1314V3-25 .....	4-31
4.14.4.1 Soil .....	4-31
4.15 ISGS #1314V3-26 (Commercial Building) .....	4-31
4.15.1 Field Observations at ISGS #1314V3-26 .....	4-31
4.15.2 Analytical Results for ISGS #1314V3-26 .....	4-31
4.15.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-26.....	4-31
4.15.4 IDOT Construction Activities at ISGS #1314V3-26.....	4-32
4.15.4.1 Soil .....	4-32
4.16 ISGS #1314V3-32 (Commercial Buildings).....	4-32
4.16.1 Field Observations at ISGS #1314V3-32 .....	4-32
4.16.2 Analytical Results for ISGS #1314V3-32 .....	4-32
4.16.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-32.....	4-32
4.16.4 IDOT Construction Activities at ISGS #1314V3-32.....	4-33
4.16.4.1 Soil .....	4-33
4.17 ISGS #1314V3-33 (Parking Lot).....	4-33
4.17.1 Field Observations at ISGS #1314V3-33 .....	4-33
4.17.2 Analytical Results for ISGS #1314V3-33 .....	4-34
4.17.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-33.....	4-34
4.17.4 IDOT Construction Activities at ISGS #1314V3-33.....	4-35
4.17.4.1 Soil .....	4-35
4.18 ISGS #1314V3-56 (Commercial Building) .....	4-35
4.18.1 Field Observations at ISGS #1314V3-56 .....	4-35
4.18.2 Analytical Results for ISGS #1314V3-56 .....	4-36
4.18.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-56.....	4-36
4.18.4 IDOT Construction Activities at ISGS #1314V3-56.....	4-36
4.18.4.1 Soil .....	4-36
4.19 ISGS #1314V3-57 (Old Chamber Building) .....	4-36
4.19.1 Field Observations at ISGS #1314V3-57 .....	4-36
4.19.2 Analytical Results for ISGS #1314V3-57 .....	4-37
4.19.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-57.....	4-37
4.19.4 IDOT Construction Activities at ISGS #1314V3-57.....	4-37
4.20 ISGS #1314V3-59 (Residence).....	4-37
4.20.1 Field Observations at ISGS #1314V3-59 .....	4-37
4.20.2 Analytical Results for ISGS #1314V3-59 .....	4-38
4.20.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-59.....	4-38
4.20.4 IDOT Construction Activities at ISGS #1314V3-59.....	4-38
4.21 ISGS #1314V3-60 (Vacant Lot) .....	4-38
4.21.1 Field Observations at ISGS #1314V3-60 .....	4-38

## Table of Contents (Cont.)

Section	Page
4.21.2	Analytical Results for ISGS #1314V3-60 ..... 4-38
4.21.3	Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-60..... 4-39
4.21.4	IDOT Construction Activities at ISGS #1314V3-60..... 4-39
4.21.4.1	Soil ..... 4-39
<b>5</b>	<b>Conclusions and Recommendations ..... 5-1</b>
5.1	Estimated Soil Management Volumes and Costs ..... 5-1
5.1.1	ISGS #1314V3-1 (IDOT ROW) ..... 5-1
5.1.2	ISGS #1314V3-2 (Mississippi River)..... 5-2
5.1.3	ISGS #1314V3-4 (City of Moline, Water Department) ..... 5-3
5.1.4	ISGS #1314V3-5 (Industrial Building) ..... 5-3
5.1.5	ISGS #1314V3-6 (Vacant Land) ..... 5-4
5.1.6	ISGS #1314V3-7 (River Stone Moline Yard) ..... 5-6
5.1.7	ISGS #1314V3-8 (Commercial Building) ..... 5-7
5.1.8	ISGS #1314V3-11 (Vacant Land) ..... 5-7
5.1.9	ISGS #1314V3-17 (Parking Lot)..... 5-8
5.1.10	ISGS #1314V3-18 (Vacant Land) ..... 5-9
5.1.11	ISGS #1314V3-21 (BNSF Railroad) ..... 5-10
5.1.12	ISGS #1314V3-24 (John Deere)..... 5-11
5.1.13	ISGS #1314V3-25 (Sivyer Steel Corp.) ..... 5-12
5.1.14	ISGS #1314V3-26 (Commercial Building) ..... 5-13
5.1.15	ISGS #1314V3-32 (Commercial Buildings)..... 5-13
5.1.16	ISGS #1314V3-33 (Parking Lot)..... 5-14
5.1.17	ISGS #1314V3-56 (Commercial Building) ..... 5-15
5.1.18	ISGS #1314V3-57 (Old Chamber Building) ..... 5-15
5.1.19	ISGS #1314V3-59 (Residence) ..... 5-16
5.1.20	ISGS #1314V3-60 (Vacant Lot) ..... 5-16
5.2	Soil Management Areas and Applicable Regulations ..... 5-17
5.2.1	ISGS #1314V3-1 (IDOT ROW) ..... 5-17
5.2.2	ISGS #1314V3-2 (Mississippi River)..... 5-18
5.2.3	ISGS #1314V3-4 (City of Moline, Water Department) ..... 5-18
5.2.4	ISGS #1314V3-5 (Industrial Building) ..... 5-19
5.2.5	ISGS #1314V3-6 (Vacant Land) ..... 5-19
5.2.6	ISGS #1314V3-7 (River Stone Moline Yard) ..... 5-22
5.2.7	ISGS #1314V3-8 (Commercial Building) ..... 5-23
5.2.8	ISGS #1314V3-11 (Vacant Land) ..... 5-23
5.2.9	ISGS #1314V3-17 (Parking Lot)..... 5-23
5.2.10	ISGS #1314V3-18 (Vacant Land) ..... 5-23
5.2.11	ISGS #1314V3-21 (BNSF Railroad) ..... 5-25
5.2.12	ISGS #1314V3-24 (John Deere)..... 5-25
5.2.13	ISGS #1314V3-25 (Sivyer Steel Corp.) ..... 5-27
5.2.14	ISGS #1314V3-32 (Commercial Buildings)..... 5-28
5.2.15	ISGS #1314V3-33 (Parking Lot)..... 5-28

## Table of Contents (Cont.)

Section	Page
5.2.16	ISGS #1314V3-56 (Commercial Building) ..... 5-29
5.2.17	ISGS #1314V3-57 (Old Chamber Building) ..... 5-29
5.2.18	ISGS #1314V3-59 (Residence) ..... 5-30
5.2.19	ISGS #1314V3-60 (Vacant Lot) ..... 5-30
5.3	Estimated Groundwater Management Volumes and Costs ..... 5-30
5.3.1	ISGS #1314V3-1 (IDOT ROW) ..... 5-30
5.3.2	ISGS #1314V3-2 (Mississippi River) ..... 5-31
5.3.3	ISGS #1314V3-4 (City of Moline, Water Department) ..... 5-31
5.3.4	ISGS #1314V3-6 (Vacant Land) ..... 5-31
5.3.5	ISGS #1314V3-7 (River Stone Moline Yard) ..... 5-31
5.4	Recommendations ..... 5-32
5.4.1	Additional Investigations ..... 5-32
5.4.2	Prevention of Accelerated Contaminant Migration ..... 5-32
5.4.3	Comparison of Detected Soil Concentrations with TACO Tier 1 Remediation Objectives for Construction Worker Exposure ..... 5-32
<b>6</b>	<b>References ..... 6-1</b>
<b>Appendix</b>	
<b>A</b>	<b>ISGS PESA Excerpts ..... A-1</b>
<b>B</b>	<b>Boring Logs ..... B-1</b>
<b>C</b>	<b>Summary of Analytical Results ..... C-1</b>
<b>D</b>	<b>Laboratory Data Package and Site Photographs (on CD- ROM) ..... D-1</b>
<b>E</b>	<b>Analytical Summary Tables from Weston WO40 ..... E-1</b>
<b>F</b>	<b>Uncontaminated Soil Certification Forms (on CD-ROM) ..... F-1</b>

# List of Tables

<b>Table</b>		<b>Page</b>
2-1	Summary of Sites and Proposed Construction Activities .....	2-2
3-1	Summary of Sampling and Analysis Program.....	3-4
4-1	Field Observations and Sampling Rationale.....	4-40
4-2	Detected Soil Analytes and Comparison with Applicable Criteria .....	4-47
4-3	Detected Water Analytes and Comparison to TACO Tier 1 Criteria .....	4-73
4-4	Summary of Soil Impacts.....	4-77
4-5	Estimate of Impacted Soil within IDOT Construction Areas .....	4-88
4-6	Estimates of Impacted Groundwater within IDOT Construction Areas.....	4-100
5-1	Estimated Disposal Costs for Impacted Soil within IDOT Construction Areas, General Cost Breakdown for Construction Activities .....	5-34
5-2	Contaminants of Concern Above TACO Tier 1 Remediation Objectives for Construction Worker Exposure.....	5-35



# List of Figures

<b>Figure</b>	<b>Page</b>
2-1	Site Area - Contract 64C08..... 2-6
4-1	Investigation Data Summary, FAI 74 - Interstate 74 (Contract # 64C08), Sta. 23+07 to Sta. 29+50..... 4-101
4-2	Investigation Data Summary, FAI 74 - Interstate 74 (Contract # 64C08), Sta. 29+50 to Sta. 37+00..... 4-102
4-3	Investigation Data Summary, FAI 74 - Interstate 74 (Contract # 64C08), Sta. 37+00 to Sta. 44+67 ..... 4-103
4-4	Investigation Data Summary, FAI 74 – Interstate 74 (Contract # 64C08), Sta. 44+67 to Sta. 50+00..... 4-104
4-5	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-01 and 1314V3-02 ..... 4-105
4-6	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-02, -04, -05, and -06..... 4-106
4-7	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-06, -07, and -08..... 4-107
4-8	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-01, -05, and -06..... 4-108
4-9	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-11, -17, and -18..... 4-109
4-10	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-18 and ISGS 1314V3-21..... 4-110
4-11	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-24 and ISGS 1314V3-25..... 4-111
4-12	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-24 ..... 4-112

## List of Figures (Cont.)

<b>Figure</b>		<b>Page</b>
4-13	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-24 and ISGS 1314V3-25.....	4-113
4-14	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-26, -32 and -33.....	4-114
4-15	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-33 and ISGS 1314V3-60.....	4-115
4-16	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-01, -32, -56 and -57.....	4-116
4-17	Contaminants of Concern, FAI 74 – Interstate 74 (Contract # 64C08), ISGS 1314V3-59 and ISGS 1314V3-60.....	4-117

## List of Acronyms

bgs	below ground surface
CCDD	clean construction or demolition debris
COC	contaminant of concern
E & E	Ecology and Environment, Inc.
GCGIER	groundwater component of the groundwater ingestion exposure route
GPS	global positioning system
I-74	Interstate 74
IAC	Illinois Administrative Code
IDOT	Illinois Department of Transportation
ISGS	Illinois State Geological Survey
MACs	Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations
MBK	methyl butyl ketone
MEK	methyl-ethyl ketone
MSA	metropolitan statistical area
MU	meter unit
NELAP	National Environmental Laboratory Accreditation Program
NRCS	Natural Resources Conservation Service
OSHA	Occupational Safety and Health Administration
PCBs	polychlorinated biphenyls
PCE	Tetrachloroethene (perchloroethylene)
PESA	Preliminary Environmental Site Assessment
PID	photoionization detector
PSI	preliminary site investigation

## List of Acronyms (Cont.)

QC	quality control
RECs	recognized environmental conditions
ROs	remediation objectives
ROW	right-of-way
SCGIER	soil component of the groundwater ingestion exposure route
SOPs	standard operating procedures
SPLP	synthetic precipitation leaching procedure
SU	standard unit
SVOCs	semi-volatile organic compounds
TACO	Tiered Approach to Corrective Action Objectives
TCLP	toxicity characteristic leaching procedure
USFO	uncontaminated soil fill operation
VOCs	volatile organic compounds

# 1

## Introduction

This preliminary site investigation (PSI) report was prepared for the Illinois Department of Transportation (IDOT) pursuant to Work Order 046 issued to Ecology and Environment, Inc., (E & E) under the IDOT Work Order Agreement for Consultant Services, PTB No. 172-027— Various Statewide Waste Assessments, Studies and Designs. E & E was tasked by IDOT to conduct the PSI for proposed construction adjacent to IDOT right-of-way (ROW) along Interstate 74 (I-74) in Moline, Rock Island County, Illinois.

This report addresses proposed construction activities to be conducted along the northern portion of the project area from the Mississippi River south to 7<sup>th</sup> Avenue under contract number 64C08. Construction activities along the southern portion of the project area were conducted under contract number 64E26 and have been addressed in a separate report.

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

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



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

# 2

## Site Background

IDOT construction plans provided to E & E indicate that soil excavation is anticipated for this project for roadway construction, including ramps, bridges, storm sewers, and grading. Excavations associated with the improvements are estimated to extend to a maximum depth of 22.8 feet below ground surface (bgs). A summary of the proposed construction activities is presented by site in Table 1-1. IDOT has indicated to E & E that property acquisition shown on project construction plans was completed for this project prior to the PSI.

The Illinois State Geological Survey (ISGS) conducted a Preliminary Environmental Site Assessment (PESA) of the project area to identify sites with recognized environmental conditions (RECs) that may potentially affect the project. Table 2-1 presents the sites identified by ISGS, along with the identified RECs and the proposed IDOT construction activities at each site. Applicable background information about the sites, taken directly from ISGS PESA report number 1314V3, is included as Appendix A. The site investigation area is shown on Figure 2-1.

**Table 2-1 Summary of Sites and Proposed Construction Activities  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition <sup>a</sup>
ISGS #1314V3-1 (ROW)	Spills; former ASTs; evidence of chemical use.  <i>De minimis</i> conditions include natural gas pipeline; potential ACM.	Removal and construction of I-74. Construction of ramps, bridges, and storm sewer. Maximum proposed excavation depth is 16.2 feet bgs.	None
ISGS #1314V3-2 (Mississippi River)	Non-attainment of water quality; spills; potentially impacted surface water.  <i>No de minimis</i> conditions identified.	Construction of storm sewer at edge of river. Maximum proposed excavation depth is 11.8 feet bgs.	None
ISGS #1314V3-4 (City of Moline, Water Division)	USTs; former UST; potential USTs; ASTs; former monitoring wells; evidence of chemical use; impacted soil and groundwater; VOCs previously detected.  <i>De minimis</i> conditions include transformers; potential ACM and lead paint.	Storm sewer construction and grading. Maximum proposed excavation is 1.3 feet bgs.	None
ISGS #1314V3-5 (Industrial Building)	Potential UST; evidence of former chemical use; VOCs and metals previously detected.  <i>De minimis</i> conditions include natural gas pipeline; transformers; potential ACM and lead paint.	Storm sewer construction and grading. Maximum proposed excavation is 7.5 feet bgs.	ROW (partial take)
ISGS #1314V3-6 (Vacant Land)	Former USTs w/documentated releases; monitoring well; potential monitoring wells; former drums; evidence of former chemical use; air releases; VOCs, metals, and PCBs previously detected.  <i>De minimis</i> conditions include soil mounds, natural gas pipeline; transformer.	Construction of I-74 roadway, ramps, bridges, and storm sewers. Maximum excavation depth is 22.4 feet bgs.	ROW (full take)



**Table 2-1 Summary of Sites and Proposed Construction Activities  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition <sup>a</sup>
ISGS #1314V3-7 (River Stone Moline Yard)	Potential monitoring wells; evidence of chemical use; potentially impacted groundwater; HAA; VOCs and metals previously detected.  <i>De minimis</i> conditions include mounding; transformers; potential ACM and lead paint.	Construction of I-74 roadway, ramps, bridges, and storm sewers. Maximum excavation depth is 21.6 feet bgs.	ROW (partial take)
ISGS #1314V3-8 (Commercial Building)	Former UST; potential chemical use; VOCs and metals previously detected.  <i>De minimis</i> conditions include transformers; potential ACM and lead paint.	Construction of I-74 roadway, ramps, bridges, and storm sewers. Maximum excavation depth is 3.8 feet bgs.	ROW (partial take)
ISGS #1314V3-11 (Vacant Lot)	Potential former chemical use; VOCs, SVOCs and metals previously detected.  <i>De minimis</i> condition is soil pile.	Storm sewer construction and grading. Maximum proposed excavation is 0.4 feet bgs.	None
ISGS #1314V3-17 (Parking Lot)	Potential former chemical use; VOCs, SVOCs and metals previously detected.  <i>De minimis</i> condition is likely natural gas pipeline.	Regrading of existing embankment. Maximum proposed excavation depth is 7.0 feet bgs.	None
ISGS #1314V3-18 (Vacant Land)	Potential USTs; potential former chemical use; VOCs, SVOCs, and metals previously detected.  <i>De minimis</i> condition is natural gas pipeline.	Removal and construction of I-74. Construction of ramps, bridges, and storm sewer. Maximum proposed excavation depth is 12.5 feet bgs.	None
ISGS #1314V3-21 (BNSF Railroad)	Railroad signal and battery boxes; potentially impacted groundwater; PCBs previously detected.  No <i>de minimis</i> conditions identified.	Storm sewer jacked and bored in place under railroad. Maximum proposed excavation depth is 8.3 feet bgs.	Permanent Easement

**Table 2-1 Summary of Sites and Proposed Construction Activities  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition <sup>a</sup>
ISGS #1314V3-24 (John Deere)	Former USTs w/documentated release; potential USTs; AST; former ASTs; former monitoring wells; evidence of chemical use; chemical containers; air release; impacted soil and groundwater; HAA; VOCs and metals previously detected.  <i>De minimis</i> conditions include transformers; potential ACM and lead paint.	Removal of part of I-74. Construction of roadway, ramps, bridges, and storm sewer. Maximum proposed excavation depth is 11.5 feet bgs.	ROW (partial take)
ISGS #1314V3-25 (Sivyer Steel Corp.)	Drums; former drums; evidence of chemical use; VOCs previously detected.  <i>De minimis</i> conditions include transformer; potential ACM and lead paint.	Removal of part of I-74. Construction of roadway, ramps, bridges, and storm sewer. Maximum proposed excavation depth is 8.6 feet bgs.	ROW (full take)
ISGS #1314V3-26 (Commercial Building)	Former UST; potential USTs; potential former chemical use.  <i>De minimis</i> conditions include transformer; potential ACM and lead paint.	Grading of proposed ditch for Ramp D and alley work. Maximum proposed excavation depth is 7.4 feet bgs.	ROW (partial take)
ISGS #1314V3-32 (Commercial Buildings)	Former USTs; potential USTs; potential ASTs; evidence of former chemical use; protruding pipes; HAA.  <i>De minimis</i> conditions include transformer; potential ACM and lead paint.	Roadway construction and grading. Maximum proposed excavation depth is 2.1 feet bgs.	ROW (full take)
ISGS #1314V3-33 (Parking Lot)	Potential USTs; potential former chemical use; presence on LUST and BOL lists; impacted soil and groundwater; HAA; VOCs previously detected.  <i>De minimis</i> condition is transformers.	Roadway construction and grading. Maximum proposed excavation depth is 10.1 feet bgs.	ROW (full take)
ISGS #1314V3-56 (Commercial Building)	Former USTs; potential USTs; potential former chemical use; VOCs previously detected.  <i>De minimis</i> conditions include potential ACM and lead paint.	Roadway construction and grading. Maximum proposed excavation depth is 1.1 feet bgs.	None

**Table 2-1 Summary of Sites and Proposed Construction Activities  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition <sup>a</sup>
ISGS #1314V3-57 (Old Chamber Building)	Potential former chemical use.  <i>De minimis</i> conditions include transformers, potential ACM and lead paint.	Roadway construction and grading. Maximum proposed excavation depth is 2.5 feet bgs.	None
ISGS #1314V3-59 (Residence)	Potential UST.  <i>De minimis</i> conditions include potential ACM and lead paint.	Removal of part of I-74. Construction of roadway and bridges and grading. Maximum proposed excavation depth is 8.9 feet bgs.	None
ISGS #1314V3-60 (Vacant Lot)	Potential former chemical use.  No <i>de minimis</i> conditions identified.	Construction of I-74 roadway, bridge, and storm sewers and local road construction. Maximum proposed excavation depth is 12.1 feet bgs.	ROW (full take)

Note:

<sup>a</sup> Property acquisition shown in the table was completed prior to the PSI.

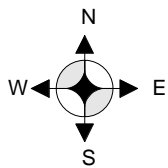
Key:

ACM = Asbestos-containing material.

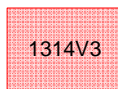
bgs = Below ground surface.

IDOT = Illinois Department of Transportation.

ISGS = Illinois State Geological Survey.



**LEGEND**



1314V3

- ISGS PESA ROUTE



**ecology and environment, inc.**  
Global Environmental Specialists

SITE AREA – CONTRACT 64C08

ROUTE: FAI 74 (I-74)

CITY: Moline

COUNTY: Rock Island

SCALE:



FIGURE NO:

2-1

# 3

## Field Investigation Procedures

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

### 3.1 Soil Boring and Sampling Procedures

E & E advanced 101 borings in the proposed construction area. E & E's truck-mounted Geoprobe<sup>®</sup> was used to advance 97 of the borings, and four borings were advanced using a stainless steel hand auger. A summary of the sampling and analysis program for this PSI is presented in Table 3-1.

Individual boring locations are identified with a unique alpha-numeric identification code. The first part of the boring identification is the site number designated by ISGS in the PESA (e.g., 1314V3-01 for ISGS site #1314V3-1 [IDOT ROW]). Following the ISGS site number is the boring identification number. Borings are numbered sequentially, with the initial boring at each site designated -B01 (e.g., for ISGS site #1314V3-1, the initial boring is designated 1314V3-01-B01).

Before advancing the borings, E & E personnel marked the proposed boring locations at the site and completed utility clearance. Five of the 101 borings were offset greater than 10 feet of their proposed locations to obtain Geoprobe access or to avoid underground utilities. E & E used a global positioning system (GPS) receiver to record the actual location of each boring upon its completion.

Based on information presented in PESA 1314V3, E & E conducted magnetometer surveys at 10 sites (ISGS #s 1314V3-4, -5, -17, -18, -24, -26, -32, -33, -56, and -59) in an attempt to identify possible USTs within the project construction area. After conducting visual surveys of the areas for fill pipes or other indicators of potential USTs, E & E screened the existing IDOT ROW at each site using a Schonstedt Instrument Co. Model GA-52B Magnetic Locator. The survey was conducted by walking across the ROW in transects and sweeping the instrument from side to side with the small end of the instrument kept close to the ground. If a higher frequency tone was detected (indicative of buried metal), E & E

attempted to further delineate the anomaly to determine if it could potentially be an UST or associated piping. Survey findings are discussed in Section 4.

E & E's Geoprobe<sup>®</sup> was equipped with 2-inch diameter Macro-Core<sup>®</sup> samplers. E & E used either a 4-foot-long or a 5-foot-long Macro-Core<sup>®</sup>, depending on the proposed boring depth. At locations sampled by the Geoprobe<sup>®</sup>, soil cores were collected from each boring by hydraulically pushing the Macro-Core<sup>®</sup> in 4- or 5-foot increments. E & E used a new PVC Macro-Core<sup>®</sup> liner for each sample interval and decontaminated the Macro-Core<sup>®</sup> sampler with an Alconox<sup>®</sup> and potable water solution between borings. A stainless steel hand auger was used to advance borings inaccessible with the Geoprobe<sup>®</sup> or with proposed maximum excavation depths of 2 feet or less in order to collect enough sample volume. Borings inaccessible to the Geoprobe were advanced with a stainless steel hand auger to proposed depth, refusal, or 6 feet BGS, whichever was encountered first. The hand auger was decontaminated between boring locations using an Alconox<sup>®</sup> and water solution.

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

E & E collected 164 soil samples from the project area for laboratory analysis, including nine duplicate samples. E & E transferred samples to TestAmerica Laboratories in University Park, Illinois (National Environmental Laboratory Accreditation Program [NELAP] number 100201) via FedEx priority overnight delivery and by transfer of samples to a lab courier. Sample identification, documentation, and chain-of-custody were conducted in accordance with the approved SOPs during collection, transportation, storage, and analysis of samples.

### **3.2 Groundwater Sampling Procedures**

E & E encountered groundwater during the investigation in a sufficient volume to collect a sample at the following sites:

- ISGS #1314V3-1 (IDOT ROW)
- ISGS #1314V3-2 (Mississippi River)
- ISGS #1314V3-4 (City of Moline, Water Department)
- ISGS #1314V3-6 (Vacant Land)
- ISGS #1314V3-7 (River Stone Moline Yard)

In accordance with the approved work plan, E & E installed a temporary groundwater sampling device and collected a groundwater sample from each of the sites

for laboratory analysis. A duplicate sample was collected at ISGS #1314V3-2 (Mississippi River).

The temporary groundwater sampling device consisted of a 24-inch-long, 1.5-inch outside diameter mill-slotted well point attached to steel riser pipe. This temporary well point was lowered into the open auger hole from the ground surface to a point beyond the water table. Polyethylene tubing was then placed inside the probe rods from the surface and lowered to the mill-slotted screen to provide access to groundwater. Groundwater was pumped to the surface using a peristaltic pump, collected in laboratory-grade sample bottles, packaged, and submitted to the laboratory according to E & E SOPs. The device was removed from the probe hole, and the open hole was filled with soil cuttings at the completion of sample collection activities.

**Table 3-1 Summary of Sampling and Analysis Program  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Offset from Proposed Location <sup>a</sup>	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method) <sup>b</sup>					
					VOCs (8260B)	SVOCs (8270D)	PCBs (8082A)	Total Metals (6010B/7471A)	TCLP Metals (1311/6010B/6020A/7470A)	SPLP Metals (1312/6010B/6020A/7470A)
<b>ISGS #1314V3-1 (IDOT ROW)</b>										
1314V3-01-B01	--	12 <sup>c</sup>	Soil	1314V3-01-B01(0-6)	•	•		•	•	•
			Soil	1314V3-01-B01 (6-11)	•	•		•	•	•
			Water	1314V3-01-G01	•	•		•		
1314V3-01-B02	--	12 <sup>c</sup>	Soil	1314V3-01-B02 (0-8)	•	•		•	•	•
1314V3-01-B03	--	8.4 <sup>d</sup>	Soil	1314V3-01-B03 (0-8)	•	•		•	•	•
1314V3-01-B04	--	11.2 <sup>d</sup>	Soil	1314V3-01-B04 (0-6)	•	•		•	•	•
			Soil	1314V3-01-B04 (6-11.2)	•	•		•	•	•
1314V3-01-B05	--	12 <sup>d</sup>	Soil	1314V3-01-B05 (0-6)	•	•		•	•	•
			Soil	1314V3-01-B05 (6-12)	•	•		•	•	•
1314V3-01-B06	--	15	Soil	1314V3-01-B06 (0-8)	•	•		•	•	•
			Soil	1314V3-01-B06 (8-15)	•	•		•	•	
			Soil	1314V3-01-B06 (8-15)D	•	•		•	•	
1314V3-01-B07	--	12	Soil	1314V3-01-B07 (0-6)	•	•		•	•	•
			Soil	1314V3-01-B07 (6-12)	•	•		•	•	
1314V3-01-B08	--	9	Soil	1314V3-01-B08 (0-4)	•	•		•	•	•
			Soil	1314V3-01-B08 (4-9)	•	•		•	•	
1314V3-01-B09	--	11.6	Soil	1314V3-01-B09 (0-6)	•	•		•	•	•
			Soil	1314V3-01-B09 (6-11.6)	•	•		•	•	•
1314V3-01-B10 <sup>e</sup>	--	6	Soil	1314V3-01-B10 (0-6)	•	•		•	•	•
1314V3-01-B11	--	15	Soil	1314V3-01-B11 (0-8)	•	•		•	•	•
			Soil	1314V3-01-B11 (8-15)	•	•		•	•	•
<b>ISGS #1314V3-2 (Mississippi River)</b>										
1314V3-02-B01	--	13	Soil	1314V3-02-B01 (0-5)	•	•		•	•	
			Soil	1314V3-02-B01 (5-10)	•	•		•	•	•
			Water	1314V3-02-G01	•	•		•		
			Water	1314V3-02-G01D	•	•		•		
1314V3-02-B02	Offset 13.6 feet south-southwest due to river embankment and Geoprobe access.	12	Soil	1314V3-02-B02 (0-6)	•	•		•	•	•
			Soil	1314V3-02-B02 (6-12)	•	•		•	•	•
			Soil	1314V3-02-B02 (6-12)D	•	•		•	•	•
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>										
1314V3-04-B01	--	12 <sup>c</sup>	Soil	1314V3-04-B01 (0-6)	•	•		•	•	•
			Soil	1314V3-04-B01 (6-11)	•	•		•	•	•
			Water	1314V3-04-G01	•	•		•		



**Table 3-1 Summary of Sampling and Analysis Program  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Offset from Proposed Location <sup>a</sup>	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method) <sup>b</sup>					
					VOCs (8260B)	SVOCs (8270D)	PCBs (8082A)	Total Metals (6010B/7471A)	TCLP Metals (1311/6010B/6020A/7470A)	SPLP Metals (1312/6010B/6020A/7470A)
<b>ISGS #1314V3-5 (Industrial Building)</b>										
1314V3-05-B01	--	5 <sup>d</sup>	Soil	1314V3-05-B01 (0-5)	•	•		•	•	•
1314V3-05-B02	--	10.6 <sup>d</sup>	Soil	1314V3-05-B02 (0-6)	•	•		•	•	•
			Soil	1314V3-05-B02 (6-10.6)	•	•		•	•	•
1314V3-05-B03	--	5.9	Soil	1314V3-05-B03 (0-5.9)	•	•		•	•	•
<b>ISGS #1314V3-6 (Vacant Land)</b>										
1314V3-06-B01	--	8	Soil	1314V3-06-B01 (0-8)	•	•	•	•	•	•
1314V3-06-B02	--	8	Soil	1314V3-06-B02 (0-8)	•	•		•	•	•
1314V3-06-B03	Offset 12.3 feet northeast due to Geoprobe access.	4 <sup>d</sup>	Soil	1314V3-06-B03 (0-4)	•	•		•	•	•
1314V3-06-B04	--	5.2 <sup>d</sup>	Soil	1314V3-06-B04 (0-5.2)	•	•	•	•	•	•
1314V3-06-B05	--	8	Soil	1314V3-06-B05 (0-8)	•	•	•	•	•	•
1314V3-06-B06	--	4 <sup>d</sup>	Soil	1314V3-06-B06 (0-4)	•	•		•	•	•
1314V3-06-B07	--	4.3 <sup>d</sup>	Soil	1314V3-06-B07 (0-4.3)	•	•		•	•	•
1314V3-06-B08	--	10	Soil	1314V3-06-B08 (0-5)	•	•		•	•	•
			Soil	1314V3-06-B08 (5-10)	•	•		•	•	•
1314V3-06-B09	--	2	Soil	1314V3-06-B09 (0-2)	•	•		•	•	•
1314V3-06-B10	--	12	Soil	1314V3-06-B10 (0-6)	•	•		•	•	•
			Soil	1314V3-06-B10 (6-11)	•	•		•	•	•
			Water	1314V3-06-G01	•	•		•	•	•
1314V3-06-B11	--	10.7 <sup>d</sup>	Soil	1314V3-06-B11 (0-6)	•	•		•	•	•
			Soil	1314V3-06-B11 (6-10.7)	•	•		•	•	•
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>										
1314V3-07-B01	--	10 <sup>c</sup>	Soil	1314V3-07-B01 (0-6)	•	•		•	•	•
			Water	1314V3-07-G01	•	•		•	•	•
1314V3-07-B02	--	10 <sup>c</sup>	Soil	1314V3-07-B02 (0-5)	•	•		•	•	•
1314V3-07-B03	--	5.5 <sup>d</sup>	Soil	1314V3-07-B03 (0-5.5)	•	•		•	•	•
1314V3-07-B04	--	11	Soil	1314V3-07-B04 (0-5)	•	•		•	•	•
			Soil	1314V3-07-B04 (5-11)	•	•		•	•	•
<b>ISGS #1314V3-8 (Commercial Building)</b>										
1314V3-08-B01	--	12	Soil	1314V3-08-B01 (0-6)	•	•		•	•	•
			Soil	1314V3-08-B01 (6-12)	•	•		•	•	•
<b>ISGS #1314V3-11 (Vacant Land)</b>										
1314V3-11-B01 <sup>c</sup>	--	1	Soil	1314V3-11-B01 (0-1)	•	•		•	•	•
1314V3-11-B02 <sup>c</sup>	--	1	Soil	1314V3-11-B02 (0-1)	•	•		•	•	•

**Table 3-1 Summary of Sampling and Analysis Program  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Offset from Proposed Location <sup>a</sup>	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method) <sup>b</sup>					
					VOCs (8260B)	SVOCs (8270D)	PCBs (8082A)	Total Metals (6010B/7471A)	TCLP Metals (1311/6010B/6020A/7470A)	SPLP Metals (1312/6010B/6020A/7470A)
1314V3-11-B03 <sup>c</sup>	--	1	Soil	1314V3-11-B03 (0-1)	•	•		•	•	•
			Soil	1314V3-11-B03 (0-1)D	•	•		•	•	•
<b>ISGS #1314V3-17 (Parking Lot)</b>										
1314V3-17-B01	--	7	Soil	1314V3-17-B01 (0-7)	•	•		•	•	•
1314V3-17-B02	--	7	Soil	1314V3-17-B02 (0-7)	•	•		•	•	•
1314V3-17-B03	--	7	Soil	1314V3-17-B03 (0-7)	•	•		•	•	•
			Soil	1314V3-17-B03 (0-7)D	•	•		•	•	•
<b>ISGS #1314V3-18 (Vacant Land)</b>										
1314V3-18-B01	--	18	Soil	1314V3-18-B01 (0-6)	•	•		•	•	•
			Soil	1314V3-18-B01 (6-12)	•	•		•	•	•
			Soil	1314V3-18-B01 (12-18)	•	•		•	•	•
1314V3-18-B02	--	13	Soil	1314V3-18-B02 (0-7)	•	•		•	•	•
			Soil	1314V3-18-B02 (0-7)D	•	•		•	•	•
			Soil	1314V3-18-B02 (7-13)	•	•		•	•	•
1314V3-18-B03	--	12 <sup>d</sup>	Soil	1314V3-18-B03 (0-6)	•	•		•	•	•
			Soil	1314V3-18-B03 (6-12)	•	•		•	•	•
1314V3-18-B04	--	5.3 <sup>d</sup>	Soil	1314V3-18-B04 (0-5.3)	•	•		•	•	•
1314V3-18-B05	--	12.2 <sup>d</sup>	Soil	1314V3-18-B05 (0-8)	•	•		•	•	•
			Soil	1314V3-18-B05 (8-12)	•	•		•	•	•
1314V3-18-B06	--	17	Soil	1314V3-18-B06 (0-6)	•	•		•	•	•
			Soil	1314V3-18-B06 (6-12)	•	•		•	•	•
			Soil	1314V3-18-B06 (12-17)	•	•		•	•	•
1314V3-18-B07	--	8	Soil	1314V3-18-B07 (0-8)	•	•		•	•	•
1314V3-18-B08	--	4.4 <sup>d</sup>	Soil	1314V3-18-B08 (0-4.4)	•	•		•	•	•
1314V3-18-B09	--	8	Soil	1314V3-18-B09 (0-8)	•	•		•	•	•
<b>ISGS #1314V3-21 (BNSF Railroad)</b>										
1314V3-21-B01	--	10	Soil	1314V3-21-B01 (0-5)	•	•	•	•	•	•
			Soil	1314V3-21-B01 (5-10)	•	•	•	•	•	•
1314V3-21-B02	--	6	Soil	1314V3-21-B02 (0-6)	•	•	•	•	•	•
		6	Soil	1314V3-21-B02 (0-6) D	•	•	•	•	•	•
<b>ISGS #1314V3-24 (John Deere)</b>										
1314V3-24-B01	--	5.8 <sup>d</sup>	Soil	1314V3-24-B01 (0-5.8)	•	•		•	•	•
1314V3-24-B02	--	10	Soil	1314V3-24-B02 (0-5)	•	•		•	•	•
			Soil	1314V3-24-B02 (5-10)	•	•		•	•	•

**Table 3-1 Summary of Sampling and Analysis Program  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Offset from Proposed Location <sup>a</sup>	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method) <sup>b</sup>					
					VOCs (8260B)	SVOCs (8270D)	PCBs (8082A)	Total Metals (6010B/7471A)	TCLP Metals (1311/6010B/6020A/7470A)	SPLP Metals (1312/6010B/6020A/7470A)
1314V3-24-B03	--	10	Soil	1314V3-24-B03 (0-5)	•	•		•	•	•
			Soil	1314V3-24-B03 (5-10)	•	•		•	•	•
1314V3-24-B04	--	10	Soil	1314V3-24-B04 (0-5)	•	•		•	•	•
			Soil	1314V3-24-B04 (5-10)	•	•		•	•	•
			Soil	1314V3-24-B04 (5-10)D	•	•		•	•	•
1314V3-24-B05	--	10	Soil	1314V3-24-B05 (0-5)	•	•		•	•	•
			Soil	1314V3-24-B05 (5-10)	•	•		•	•	•
1314V3-24-B06	--	4	Soil	1314V3-24-B06 (0-4)	•	•		•	•	•
1314V3-24-B07	--	5	Soil	1314V3-24-B07 (0-5)	•	•		•	•	•
1314V3-24-B08	--	8	Soil	1314V3-24-B08 (0-8)	•	•		•	•	•
1314V3-24-B09 <sup>c</sup>	--	4	Soil	1314V3-24-B09 (0-4)	•	•		•	•	•
1314V3-24-B10	--	5	Soil	1314V3-24-B10 (0-5)	•	•		•	•	•
1314V3-24-B11	--	12	Soil	1314V3-24-B11 (0-6)	•	•		•	•	•
			Soil	1314V3-24-B11 (6-12)	•	•		•	•	•
1314V3-24-B12	--	12	Soil	1314V3-24-B12 (0-6)	•	•		•	•	•
			Soil	1314V3-24-B12 (6-12)	•	•		•	•	•
1314V3-24-B13	--	12	Soil	1314V3-24-B13 (0-6)	•	•		•	•	•
			Soil	1314V3-24-B13 (6-12)	•	•		•	•	•
1314V3-24-B14	--	12	Soil	1314V3-24-B14 (0-6)	•	•		•	•	•
			Soil	1314V3-24-B14 (6-12)	•	•		•	•	•
<b>ISGS #1314V3-25 (Sivyer Steel Corp.)</b>										
1314V3-25-B01	--	12	Soil	1314V3-25-B01 (0-6)	•	•		•	•	•
			Soil	1314V3-25-B01 (6-12)	•	•		•	•	•
1314V3-25-B02	Offset 14.2 feet southwest to move boring out of street.	12	Soil	1314V3-25-B02 (0-6)	•	•		•	•	•
			Soil	1314V3-25-B02 (6-12)	•	•		•	•	•
1314V3-25-B03	--	8	Soil	1314V3-25-B03 (0-8)	•	•		•	•	•
1314V3-25-B04	--	12	Soil	1314V3-25-B04 (0-6)	•	•		•	•	•
			Soil	1314V3-25-B04 (6-12)	•	•		•	•	•
1314V3-25-B05	--	12	Soil	1314V3-25-B05 (0-6)	•	•		•	•	•
			Soil	1314V3-25-B05 (6-12)	•	•		•	•	•
1314V3-25-B06	Offset 32.5 feet west to obtain Geoprobe access.	12	Soil	1314V3-25-B06 (0-6)	•	•		•	•	•
			Soil	1314V3-25-B06 (6-12)	•	•		•	•	•
1314V3-25-B07	Offset 10.3 feet south to move boring out of street.	12	Soil	1314V3-25-B07 (0-6)	•	•		•	•	•
			Soil	1314V3-25-B07 (6-12)	•	•		•	•	•

**Table 3-1 Summary of Sampling and Analysis Program  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Offset from Proposed Location <sup>a</sup>	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method) <sup>b</sup>					
					VOCs (8260B)	SVOCs (8270D)	PCBs (8082A)	Total Metals (6010B/7471A)	TCLP Metals (1311/6010B/6020A/7470A)	SPLP Metals (1312/6010B/6020A/7470A)
<b>ISGS #1314V3-26 (Commercial Building)</b>										
1314V3-26-B01	--	8	Soil	1314V3-26-B01 (0-8)	•	•		•	•	•
1314V3-26-B02	--	8	Soil	1314V3-26-B02 (0-8)	•	•		•	•	
<b>ISGS #1314V3-32 (Commercial Building)</b>										
1314V3-32-B01	--	12	Soil	1314V3-32-B01 (0-6)	•	•		•	•	•
			Soil	1314V3-32-B01 (6-12)	•	•		•	•	•
1314V3-32-B02	--	12	Soil	1314V3-32-B02 (0-6)	•	•		•	•	•
			Soil	1314V3-32-B02 (6-12)	•	•		•	•	•
1314V3-32-B03	--	12	Soil	1314V3-32-B03 (0-6)	•	•		•	•	•
			Soil	1314V3-32-B03 (6-12)	•	•		•	•	•
1314V3-32-B04	--	12	Soil	1314V3-32-B04 (0-6)	•	•		•	•	•
			Soil	1314V3-32-B04 (6-12)	•	•		•	•	
1314V3-32-B05	--	3	Soil	1314V3-32-B05 (0-3)	•	•		•	•	•
1314V3-32-B06	--	3	Soil	1314V3-32-B06 (0-3)	•	•		•	•	•
1314V3-32-B07	--	3	Soil	1314V3-32-B07 (0-3)	•	•		•	•	
1314V3-32-B08	--	3	Soil	1314V3-32-B08 (0-3)	•	•		•	•	
<b>ISGS #1314V3-33 (Parking Lot)</b>										
1314V3-33-B01	--	12	Soil	1314V3-33-B01 (0-6)	•	•		•	•	•
			Soil	1314V3-33-B01 (6-12)	•	•		•	•	•
1314V3-33-B02	--	9.4 <sup>d</sup>	Soil	1314V3-33-B02 (0-5)	•	•		•	•	•
			Soil	1314V3-33-B02 (5-9.4)	•	•		•	•	•
1314V3-33-B03	--	12	Soil	1314V3-33-B03 (0-6)	•	•		•	•	
			Soil	1314V3-33-B03 (6-12)	•	•		•	•	•
1314V3-33-B04	--	12	Soil	1314V3-33-B04 (0-6)	•	•		•	•	•
			Soil	1314V3-33-B04 (6-12)	•	•		•	•	•
1314V3-33-B05	--	12	Soil	1314V3-33-B05 (0-6)	•	•		•	•	•
			Soil	1314V3-33-B05 (6-12)	•	•		•	•	•
1314V3-33-B06	--	12	Soil	1314V3-33-B06 (0-6)	•	•		•	•	•
			Soil	1314V3-33-B06 (6-12)	•	•		•	•	•
1314V3-33-B07	--	8	Soil	1314V3-33-B07 (0-8)	•	•		•	•	•
			Soil	1314V3-33-B07 (0-8)D	•	•		•	•	•

**Table 3-1 Summary of Sampling and Analysis Program  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Offset from Proposed Location <sup>a</sup>	Boring Depth (feet)	Matrix	Sample(s)	Parameters (Method) <sup>b</sup>					
					VOCs (8260B)	SVOCs (8270D)	PCBs (8082A)	Total Metals (6010B/7471A)	TCLP Metals (1311/6010B/6020A/7470A)	SPLP Metals (1312/6010B/6020A/7470A)
<b>ISGS #1314V3-56 (Commercial Building)</b>										
1314V3-56-B01	--	3	Soil	1314V3-56-B01 (0-3)	•	•		•	•	•
1314V3-56-B02	--	3	Soil	1314V3-56-B02 (0-3)	•	•		•	•	•
			Soil	1314V3-56-B02 (0-3)D	•	•		•	•	•
1314V3-56-B03	--	3	Soil	1314V3-56-B03 (0-3)	•	•		•	•	•
<b>ISGS #1314V3-57 (Old Chamber Building)</b>										
1314V3-57-B01	--	3	Soil	1314V3-57-B01 (0-3)	•	•		•	•	
1314V3-57-B02	--	3	Soil	1314V3-57-B02 (0-3)	•	•		•	•	•
1314V3-57-B03	--	5	Soil	1314V3-57-B03 (0-5)	•	•		•	•	•
<b>ISGS #1314V3-59 (Residence)</b>										
1314V3-59-B01	--	10	Soil	1314V3-59-B01 (0-5)	•	•		•	•	•
			Soil	1314V3-59-B01 (5-10)	•	•		•	•	•
<b>ISGS #1314V3-60 (Vacant Lot)</b>										
1314V3-60-B01	--	11	Soil	1314V3-60-B01 (0-6)	•	•		•	•	
			Soil	1314V3-60-B01 (6-11)	•	•		•	•	
1314V3-60-B02	--	7	Soil	1314V3-60-B02 (0-7)	•	•		•	•	•
1314V3-60-B03	--	9	Soil	1314V3-60-B03 (0-4)	•	•		•	•	
			Soil	1314V3-60-B03 (4-9)	•	•		•	•	
1314V3-60-B04	--	5	Soil	1314V3-60-B04 (0-5)	•	•		•	•	•
1314V3-60-B05	--	12	Soil	1314V3-60-B05 (0-6)	•	•		•	•	
			Soil	1314V3-60-B05 (6-12)	•	•		•	•	
1314V3-60-B06	--	12	Soil	1314V3-60-B06 (0-6)	•	•		•	•	
			Soil	1314V3-60-B06 (6-12)	•	•		•	•	

Notes:

<sup>a</sup> Offsets are shown for borings moved a distance of 10 feet or greater from the proposed location.

<sup>b</sup> All of the samples were analyzed for pH and percent solids.

<sup>c</sup> Boring advanced to depth due to encounter with groundwater.

<sup>d</sup> Boring advanced to depth due to refusal.

<sup>e</sup> Boring advanced with stainless steel hand auger.

Key:

ISGS = Illinois State Geological Survey.

SPLP = Synthetic precipitation leaching procedure.

SVOCs = Semivolatile organic compounds.

TCLP = Toxicity characteristic leaching procedure.

VOCs = Volatile organic compounds.

# 4

## Field Investigation Results

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

E & E's field observations and sample selection rationale are summarized by site and boring in Table 4-1. Soil samples collected for laboratory analysis were analyzed for VOCs, semi-volatile organic compounds (SVOCs), and total and toxicity characteristic leaching procedure (TCLP) metals listed in 35 Illinois Administrative Code (IAC) 1100, Subpart F. Selected samples were analyzed for individual metals by synthetic precipitation leaching procedure (SPLP) analysis, based on TCLP analysis results, as discussed below. Samples collected at ISGS #1314V3-6 (Vacant Land) from borings 1314V3-06-B01, 1314V3-06-B04, and 1314V3-06-B05 and from both borings at ISGS #1314V3-21 (BNSF Railroad) were also analyzed for polychlorinated biphenyls (PCBs) based on PESA information indicating PCBs were detected in a previous PSI near the location of these borings.

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

The detected analyte concentrations in soil are compared with the Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MACs) presented in 35 IAC 1100, Subpart F and TACO Tier 1 Remediation Objectives (ROs) for residential ingestion and inhalation exposure presented in 35 IAC 742, Appendix B, Table A. When the MAC for an inorganic analyte is based on the Tiered Approach to Corrective Action Objectives (TACO) Class I soil component of the groundwater ingestion exposure route (SCGIER) presented in 35 IAC 742, Appendix B, Table C, the total concentration for the analyte is compared with the MAC, and the results of TCLP and SPLP analyses are independently compared with the TACO Class I SCGIER for the analyte found in 35 IAC 742, Appendix B, Table A. The

analyte is considered to exceed the MAC if the total, TCLP, and SPLP results all exceed the applicable criteria.

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

E & E also evaluated sample pH levels and the results of PID headspace screening pursuant to 35 IAC 1100.201(g) and 205(b)(1), respectively. Soil pH must be between 6.25 and 9.0 standard units (SU) in order for the soil to be accepted at a clean construction or demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO). In addition, loads of soil exhibiting PID readings above background cannot be accepted by a CCDD facility or USFO. Table 4-4 presents a summary of COCs identified by boring and sample for each site.

When one or more COCs are detected in a boring, aggregate areas of impacted soil are delineated without regard for property boundaries or planned excavation activities. The areal extent of impacted soil at an individual boring is represented by a rectangle centered on the boring and extending from the centerline of the roadway to the construction limit. The rectangle will extend laterally one-half the distance between the affected boring and the next adjacent boring that does not contain a COC. If no adjacent borings are present, the impacted area will extend laterally 50 feet in each direction.

When the estimated impacted area at a boring extends to an adjacent site, the impacts are also assumed for the applicable area of the adjacent site in the calculation of impacted construction quantities. The impacted soil excavation quantities for construction are calculated based on the assumption that the impacted soil extends from the ground surface to the proposed excavation depth for the construction feature within the impacted area.

The detected analyte concentrations in groundwater are compared with the TACO Tier 1 groundwater component of the groundwater ingestion exposure route (GCGIER) for Class I and Class II groundwater, presented in 35 IAC 742, Appendix B, Table E. When impacted groundwater is identified within the proposed construction excavation depth, E & E assumes that one excavation volume of groundwater will require removal and off-site disposal.

E & E's field investigation was designed to provide an initial characterization of site conditions at pre-designated boring locations. The investigation was limited in terms of analytical parameters and the number of samples collected, based on the site information presented in ISGS PESA #1314V3. Consequently, the find-

ings and conclusions of this investigation are subject to revision if more site data become available.

Portions of the site area were previously investigated by Weston Solutions, Inc. (Weston) under PTB No. 167-034, Work Order No. 040. Where applicable, E & E has incorporated the findings of Weston's investigation in the estimates of impacted soil. Excerpts from the PSI report, dated May 30, 2014, are included for reference as Appendix E.

#### **4.1 Project Area Geology and Topography**

E & E advanced 101 soil borings for this project to depths ranging from approximately two to 18 feet bgs. Observations of subsurface materials in the project area are described for each of the soil borings in Appendix B. The following information was provided by ISGS PESA #1314V3:

*The topmost bedrock unit in the project area from the Mississippi River to 14<sup>th</sup> Street has been mapped as rocks of the Muscatatuck Group of Devonian age, which consist primarily of limestones.*

*The total thickness of surficial deposits in the project area have been mapped as greater than 50 feet thick near the Mississippi River to less than 50 feet thick in the remainder of the project area. Surficial deposits from the Mississippi River to 6th Avenue have been mapped as silts and sands of the Cahokia Formation, greater than 20 feet in thickness overlying sand and gravel of the Henry Formation, greater than 20 feet in total thickness. Surficial deposits from 6th Avenue to 15th Avenue have been mapped as silts of the Peoria and Roxana Silt, less than 20 feet in thickness overlying silts and clays of the Glasford Formation, less than 20 feet in total thickness.*

*Along the project ROW, the Natural Resources Conservation Service (NRCS) has not classified any soils as containing 33 to 100 percent hydric components. The NRCS has classified the Orthents, loamy, undulating; Hickory-Sylvan silt loams, 35 to 60 percent slopes; Hickory-Sylvan-Fayette silt loams, 10 to 18 percent slopes, eroded; and Hickory-Sylvan-Fayette silt loams, 18 to 30 percent slopes as non-prime farmland.*

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

The stratigraphy of the boreholes advanced during E & E's investigation revealed fill material in all but eleven of the borings. The fill consisted of topsoil, sand/



gravel mixtures, reworked native material, slag, asphalt, concrete, and brick, and ranged in thickness from less than one foot to 12 feet. North of 4<sup>th</sup> Avenue, native materials encountered during this investigation were black to light brown silts, sands, and clays consistent with the Cahokia alluvium overlying light brown sands and gravels consistent with the Henry Formation. South of 4<sup>th</sup> Avenue, and in a few borings just north of 4<sup>th</sup> Avenue, native materials consisted of light brown to black silt and clay, pink to tan silt and very fine sand, and gray-brown to dark brown clay with little gravel, consistent with Peoria and Roxana loess and glacial till from the Glasford Formation. E & E encountered groundwater at sites 1314V3-01 (borings B01 and B02), 1314V3-02 (B01), 1314V3-04 (B01), 1314V3-06 (B10), and 1314V3-07 (B01 and B02) at depths ranging from five to 11 feet bgs.

## **4.2 ISGS #1314V3-1 (IDOT ROW)**

### **4.2.1 Field Observations at ISGS #1314V3-1**

E & E advanced eleven borings (1314V3-01-B01 through 1314V3-01-B11) at ISGS #1314V3-1 (IDOT ROW) under contract #64C08 (see Table 4-1 and Figures 4-1, 4-2, and 4-4). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination.

Borings 1314V3-01-B01 and 1314V3-01-B02 were proposed to a depth of 16 feet bgs; however, the borings were completed at depths of 11 and 8 feet bgs, respectively, due to the presence of groundwater. Consequently, only one soil sample was collected at 1314V3-01-B02. E & E encountered refusal at borings 1314V3-01-B03, -B04, -B05, and -B06 prior to the proposed completion depths. Boring 1314V3-01-B10 was advanced to a depth of 6 feet with a stainless steel hand auger, and only one soil sample was collected for laboratory analysis. A duplicate soil sample was collected from boring 1314V3-01-B06. E & E encountered groundwater in boring 1314V3-01-B01, and collected groundwater sample 1314V3-01-G01.

### **4.2.2 Analytical Results for ISGS #1314V3-1**

#### **4.2.2.1 Soil**

Acetone and 2-butanone (methyl-ethyl ketone [MEK]) were the only VOCs detected in the samples (see Table 4-2). Twenty SVOCs, primarily PAHs, were detected in the site samples. Twenty-four metals were detected in the samples, and nine of the metals were detected by TCLP analysis. Based on the TCLP metals results, one sample was analyzed for cadmium, nine samples were analyzed for lead, and 15 samples were analyzed for manganese by SPLP. Cadmium was not detected by SPLP. SPLP lead was detected in eight of the nine samples analyzed, and SPLP manganese was detected in each of the 15 samples analyzed for SPLP manganese. The sample pHs ranged from 7.6 to 9.4 SU.

#### 4.2.2.2 Groundwater

Analytes detected in groundwater at the site are presented in Table 4-3. Analysis of the groundwater sample did not reveal the presence of VOCs. One SVOC (diethyl phthalate) and fifteen metals were detected in the groundwater sample.

#### 4.2.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-1

##### 4.2.3.1 Soil

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, and manganese were detected above reference criteria in site soil (see Table 4-4). Benzo(a)anthracene and benzo(b)fluoranthene were detected at concentrations above the most stringent MACs and Chicago MACs but below the MSA MACs in sample 1314V3-01-B04 (0-6).

Benzo(a)pyrene was detected in samples 1314V3-01-B04 (0-6), 1314V3-01-B05 (0-6), and 1314V3-01-B05 (6-12) at concentrations above the most stringent MAC, but below the Chicago and MSA MACs. Dibenzo(a,h)anthracene was also detected in sample 1314V3-01-B04 (0-6) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs.

Manganese was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-01-B04 (6-12). The following samples contained TCLP and SPLP manganese above the TACO Class 1 SCGIER, but the total manganese concentrations detected in the samples were below the most stringent MAC:

- 1314V3-01-B02 (0-8)
- 1314V3-01-B04 (0-6)
- 1314V3-01-B05 (0-6)
- 1314V3-01-B05 (6-12)
- 1314V3-01-B06 (0-8)
- 1314V3-01-B08 (0-4)
- 1314V3-01-B09 (0-6)
- 1314V3-01-B09 (6-11.6)
- 1314V3-01-B10 (0-6)
- 1314V3-01-B11 (8-15)

The following samples contained TCLP and SPLP lead above the TACO Class 1 SCGIER, but the total lead concentrations detected in the samples were below the most MAC:

- 1314V3-01-B01 (0-6)
- 1314V3-01-B04 (0-6)

- 1314V3-01-B04 (6-12)
- 1314V3-01-B05 (0-6)
- 1314V3-01-B05 (6-12)
- 1314V3-01-B06 (0-8)
- 1314V3-01-B07 (0-6)
- 1314V3-01-B09 (6-11.6)

No other COCs were identified in site soil. Manganese was detected above applicable reference concentrations by total and TCLP analyses in sample 1314V3-01-B03 (0-8); however, SPLP manganese did not exceed the TACO Class 1 SCGIER. TCLP manganese was detected at concentrations above the TACO Class 1 SCGIER in samples 1314V3-01-B01 (6-11.6) and 1314V3-01-B07 (0-6); however, manganese was not detected above applicable reference concentrations by total and SPLP analyses. TCLP lead was detected in sample 1314V3-01-B03 (0-8) at a concentration above the TACO Class 1 SCGIER, but lead was not detected in the sample above applicable reference concentrations by total and SPLP analyses. TCLP cadmium was detected at a concentration above the TACO Class 1 SCGIER in sample 1314V3-01-B05 (0-6); however, cadmium was not detected above applicable reference concentrations by total and SPLP analyses. Iron was detected at concentrations above MACs in seven samples, but TCLP iron was not detected in any of the samples at concentrations above the TACO Class 1 SCGIER. Manganese was detected at a concentration above MACs in sample 1314V3-01-B08 (4-9), but manganese was not detected in the sample by TCLP analysis.

VOCs were not detected during headspace screening of site soil. The pH of 9.4 SU for sample 1314V3-01-B03 (0-8) and 9.3 SU for sample 1314V3-01-B04 (0-6) were above the acceptable range for management of the soil at a CCDD facility or USFO. The pH levels for the remaining samples were within the acceptable range.

#### **4.2.3.2 Groundwater**

Iron and manganese were detected at concentrations above their respective TACO Tier 1 ROs for Class 1 groundwater (see Table 4-3). The iron concentration also exceeded the TACO Tier 1 RO for Class 2 groundwater. The extent of the TACO exceedances in groundwater cannot be determined from existing information. The installation of permanent wells would be necessary to determine the nature and extent of the TACO exceedances in groundwater.

#### **4.2.4 IDOT Construction Activities at ISGS #1314V3-1**

##### **4.2.4.1 Soil**

Construction activities anticipated at this site include ramp and ditch construction; and installation of bridge piers and storm sewers. Excavations associated with the improvements are estimated to extend to a maximum depth of 17 feet bgs for bridge pier replacement.

The assumed areas of impact and COCs are depicted on Figures 4-1, 4-2, 4-4, 4-5, 4-8, and 4-16. Table 4-5 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

#### **4.2.4.2 Groundwater**

Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-01-B01 at the location of a proposed storm sewer. Excavation in the vicinity of the boring is proposed to an approximate depth of 16 feet bgs; consequently, it is anticipated that groundwater will be encountered during construction at the site.

Based on the COCs detected in groundwater (inorganics), and the type of construction activity (storm sewer), it is anticipated that any groundwater encountered during construction will be managed within the excavation. Consequently, E & E has not included an estimated cost for off-site management of impacted groundwater.

### **4.3 ISGS #1314V3-2 (Mississippi River)**

#### **4.3.1 Field Observations at ISGS #1314V3-2**

E & E advanced two borings (1314V3-02-B01 and 1314V3-02-B02) at ISGS #1314V3-2 (Mississippi River) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected two samples from each boring for laboratory analysis. A duplicate soil sample was also collected from boring 1314V3-02-B02. E & E encountered groundwater at the site and collected groundwater sample 1314V3-02-G01 at boring 1314V3-02-B01. E & E also collected a duplicate groundwater sample at boring 1314V3-02-B01.

#### **4.3.2 Analytical Results for ISGS #1314V3-2**

##### **4.3.2.1 Soil**

Acetone was the only VOC detected in the samples (see Table 4-2). Sixteen SVOCs, all PAHs, were detected in the site samples. Twenty-two metals were detected in the samples, and nine of the metals were detected by TCLP analysis. Based on the TCLP metals results, one sample was analyzed for SPLP cadmium, four samples were analyzed for SPLP manganese, and one sample was analyzed for SPLP nickel. Cadmium was not detected by SPLP analysis. Manganese and nickel were detected in the respective samples by SPLP analysis. The sample pH levels ranged from 8.9 to 11.6 SU.

##### **4.3.2.2 Groundwater**

Analytes detected in groundwater at the site are presented in Table 4-3. Total xylenes were detected in the groundwater sample 1314V3-02-G01, but xylenes were not detected in duplicate sample 1314V3-02-G01D. No other VOCs were detected. Two SVOCs (diethyl phthalate and phenanthrene) and twenty metals were also detected in the groundwater samples.

### **4.3.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-2**

#### **4.3.3.1 Soil**

Benzo(a)pyrene and manganese were detected above reference criteria in site soil (see Table 4-4). Benzo(a)pyrene was detected in sample 1314V3-02-B01 (5-10) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs. TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in samples 1314V3-02-B01 (5-10), 1314V3-02-B02 (6-12), and duplicate sample 1314V3-02-B02 (6-12)D; however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Manganese was detected at a concentration above MACs in sample 1314V3-02-B01 (0-5), but manganese was not detected in the sample by TCLP analysis. Chromium and iron were detected at concentrations above the respective MACs in sample 1314V3-02-B02 (0-6), but neither of the analytes was detected in the sample by TCLP analysis. TCLP manganese and nickel were detected at concentrations above the TACO Class 1 SCGIER in sample 1314V3-02-B02 (0-6); however, the analytes were not detected above applicable reference concentrations by total and SPLP analyses. TCLP cadmium was detected at a concentration above the TACO Class 1 SCGIER in sample 1314V3-02-B02 (6-12); however, cadmium was not detected above applicable reference concentrations by total and SPLP analyses.

VOCs were not detected during headspace screening of site soil. The pH of 11.6 SU for sample 1314V3-02-B01 (0-5), 9.8 SU for sample 1314V3-02-B01 (5-10), and 9.1 SU for samples 1314V3-02-B02 (0-6) and 1314V3-02-B02 (6-12) were above the acceptable range for management of the soil at a CCDD facility or USFO. Only duplicate sample 1314V3-02-B02 (6-12)D exhibited a pH within the acceptable range.

#### **4.3.3.2 Groundwater**

Iron, lead, and manganese were detected at concentrations above their respective TACO Tier 1 ROs for Class 1 groundwater in both the original and the duplicate groundwater samples (see Table 4-3). The detected iron and lead concentrations also exceeded the TACO Tier 1 ROs for Class 2 groundwater. The extent of the TACO exceedances in groundwater cannot be determined from existing information. The installation of permanent wells would be necessary to determine the nature and extent of the TACO exceedances in groundwater.

### **4.3.4 IDOT Construction Activities at ISGS #1314V3-2**

#### **4.3.4.1 Soil**

Construction activities anticipated at this site include ramp and ditch construction, and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 13 feet bgs for storm sewer.

The assumed areas of impact and COCs are depicted on Figures 4-1, 4-5, and 4-6. Table 4-5 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

#### **4.3.4.2 Groundwater**

Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-02-B01 at the location of a proposed storm sewer. Excavation in the vicinity of the boring is proposed to an approximate depth of 12 feet bgs; consequently, it is anticipated that groundwater will be encountered during construction at the site.

Based on the COCs detected in groundwater (inorganics), and the type of construction activity (storm sewer), it is anticipated that any groundwater encountered during construction will be managed within the excavation. Consequently, E & E has not included an estimated cost for off-site management of impacted groundwater.

### **4.4 ISGS #1314V3-4 (City of Moline, Water Department)**

#### **4.4.1 Field Observations at ISGS #1314V3-4**

E & E advanced one boring (1314V3-4-B01) at ISGS #1314V3-4 (City of Moline, Water Department) (see Table 4-1 and Figure 4-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected two soil samples from the boring for laboratory analysis. E & E encountered groundwater in the boring and collected groundwater sample 1314V3-04-G01.

Prior to advancing the borings, E & E conducted a magnetometer survey at ISGS #1314V3-4 (City of Moline, Water Department) in an attempt to identify potential USTs within the project construction area. E & E surveyed the construction area surrounding boring 1314V3-04-B01. E & E did not observe an anomaly indicative of an UST during the survey.

#### **4.4.2 Analytical Results for ISGS #1314V3-4**

##### **4.4.2.1 Soil**

Acetone and MEK were the only VOCs detected in the samples (see Table 4-2). Seventeen SVOCs, all PAHs, were detected in the site samples. Twenty-three metals were detected in the samples, and eight of the metals were also detected by TCLP analysis. Based on the TCLP metals results, both of the samples were analyzed for SPLP lead and manganese, and both analytes were detected in each sample. The pH of both samples was 8 SU.

##### **4.4.2.2 Groundwater**

Analytes detected in groundwater at the site are presented in Table 4-3. Analysis of the groundwater sample did not reveal the presence of VOCs. Ten SVOCs and nineteen metals were detected in the groundwater sample.

### **4.4.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-4**

#### **4.4.3.1 Soil**

Benzo(a)pyrene, lead, and manganese were detected above reference criteria in site soil (see Table 4-4). Benzo(a)pyrene was detected in both samples at concentrations above the most stringent MAC, but below the Chicago and MSA MACs.

Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-04-B01 (6-11). TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in sample 1314V3-04-B01 (0-6); however, the total lead concentration detected in the sample was below the MAC. TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in sample 1314V3-04-B01 (6-11); however, the total manganese concentration detected in the sample was below the most stringent MAC.

No other COCs were identified at the site. Boron was detected above the MAC in sample 1314V3-04-B01 (6-11); however, TCLP boron did not exceed the TACO Class 1 SCGIER. Iron was detected at concentrations above MACs in both samples but TCLP iron did not exceed the TACO Class 1 SCGIER. TCLP manganese was detected at a concentration above the TACO Class 1 SCGIER in sample 1314V3-04-B01 (0-6); however, manganese was not detected above applicable reference concentrations by total and SPLP analyses.

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

#### **4.4.3.2 Groundwater**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, iron, lead, and manganese were detected in sample 1314V3-04-G01 at concentrations above the respective TACO Tier 1 ROs for Class 1 groundwater. The detected benzo(a)anthracene, benzo(b)fluoranthene, and iron concentrations also exceeded the TACO Tier 1 ROs for Class 2 groundwater. The extent of the TACO exceedances in groundwater cannot be determined from existing information. The installation of permanent wells would be necessary to determine the nature and extent of the TACO exceedances in groundwater.

### **4.4.4 IDOT Construction Activities at ISGS #1314V3-4**

#### **4.4.4.1 Soil**

Construction activities anticipated at this site include grading and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 12 feet bgs for storm sewer.

The assumed areas of impact and COCs are depicted on Figures 4-1 and 4-6. Table 4-5 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

#### **4.4.4.2 Groundwater**

Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-04-B01 at the location of a proposed storm sewer. Excavation in the vicinity of the boring is proposed to an approximate depth of 16 feet bgs; consequently, it is anticipated that groundwater will be encountered during construction at the site.

Based on the PAHs detected in groundwater, it is anticipated that groundwater encountered during construction will be managed off site. Table 4-6 presents an estimated volume of impacted water within proposed construction excavation areas that will require proper handling and disposal.

### **4.5 ISGS #1314V3-5 (Industrial Building)**

#### **4.5.1 Field Observations at ISGS #1314V3-5**

E & E advanced three borings (1314V3-05-B01 through 1314V3-05-B03) at ISGS #1314V3-5 (Industrial Building) (see Table 4-1 and Figures 4-1 and 4-2). E & E encountered refusal in each of the three borings prior to their completion depths; as a result, E & E only collected one soil sample from boring 1314V3-05-B03. VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. A groundwater sample was not proposed for collection at this site, and E & E did not encounter groundwater in any of the site borings.

E & E conducted a magnetometer survey at ISGS #1314V3-5 (Industrial Building) and advanced borings 1314V3-05-B02 and 1314V3-05-B03, in an attempt to identify potential USTs within a portion of the property identified as being acquired by IDOT. E & E did not observe an anomaly indicative of an UST during the survey.

#### **4.5.2 Analytical Results for ISGS #1314V3-5**

VOCs were not detected in soil from this site (see Table 4-2). Nineteen SVOCs, primarily PAHs, were detected in the site samples. Twenty metals were detected in the site samples, and seven of the metals were detected by TCLP analysis. Based on the TCLP metals results, one sample was analyzed for SPLP lead, and all of the samples were analyzed for SPLP manganese. SPLP manganese was detected in three of the four samples, and SPLP lead was detected in the sample analyzed for lead. The sample pH levels ranged from 7 to 8.2 SU.

#### **4.5.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-5**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, and manganese were detected above reference concentrations in soil at



the site (see Table 4-4). Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were detected in sample 1314V3-05-B03 (0-5.9) at concentrations above the most stringent MACs, but below the Chicago and MSA MACs.

Manganese was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-05-B03 (0-5.9). TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in the sample; however, the total lead concentration detected in the sample was below the MAC.

TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in samples 1314V3-05-B02 (0-6) and 1314V3-05-B02 (6-10.6); however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Manganese was detected above applicable reference concentrations by total and TCLP analyses in sample 1314V3-05-B01 (0-5); however, manganese was not detected by SPLP analysis. Iron was detected at concentrations above MACs in samples 1314V3-05-B01 (0-5), 1314V3-05-B02 (6-10.6), and 1314V3-05-B03 (0-5.9), but iron was not detected in the samples by TCLP analysis. VOCs were not detected during headspace screening of site soil, and the sample pH levels were within the acceptable range for management of the soil at a CCDD facility or USFO.

#### **4.5.4 IDOT Construction Activities at ISGS #1314V3-5**

##### **4.5.4.1 Soil**

Construction activities anticipated at this site include ramp reconstruction and storm sewer installation in the vicinity of boring 1314V3-05-B01. Excavations associated with the improvements are estimated to extend to a maximum depth of 7.5 feet bgs. Borings 1314V1-05-B02 and 1314V1-05-B03 were advanced to assess an area of the site for the presence of an UST. Project plans do not indicate that excavation is planned in the vicinity of borings 1314V1-05-B02 and 1314V1-05-B03.

The assumed areas of impact and COCs are depicted on Figures 4-1, 4-2, 4-6, and 4-8. Based on the findings presented above, impacted soil is not anticipated within the proposed construction excavation area.

#### **4.6 ISGS #1314V3-6 (Vacant Land)**

##### **4.6.1 Field Observations at ISGS #1314V3-6**

E & E advanced 11 borings (1314V3-06-B01 through 1314V3-06-B11) at ISGS #1314V3-6 (Vacant Land) (see Table 4-1 and Figures 4-1 and 4-2). E & E encountered refusal in five of the site borings at depths ranging between four and 10.7 feet bgs (see Table 3-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of

potential chemical contamination. E & E encountered groundwater at boring 1314V3-06-B10, and collected groundwater sample 1314V3-06-G01.

#### **4.6.2 Analytical Results for ISGS #1314V3-6**

##### **4.6.2.1 Soil**

VOCs were not detected in soil from this site (see Table 4-2). Twenty-one SVOCs, primarily PAHs, were detected in the site samples. Three PCBs were detected in the samples. Twenty-four metals were detected in the samples, and ten of the metals were detected by TCLP analysis. Based on the TCLP metals results, all the samples were analyzed for SPLP manganese except for 1314V3-06-B11 (0-6), and manganese was detected in each samples. Samples 1314V3-06-B02 (0-8), 1314V3-06-B07 (0-4.3), 1314V3-06-B08 (0-5), and 1314V3-06-B08 (5-10) were analyzed for SPLP cadmium, and cadmium was detected in only 1314V3-06-B08 (5-10). Sample 1314V3-06-B01 (0-8) was also analyzed for SPLP iron and nickel and 1314V3-06-B08 (5-10) was analyzed for zinc; the analytes were detected in their respective samples. The sample pH levels ranged from 7.8 to 8.9 SU.

##### **4.6.2.2 Groundwater**

Analytes detected in groundwater at the site are presented in Table 4-3. Analysis of the groundwater sample did not reveal the presence of VOCs or SVOCs. Seventeen metals were detected in the groundwater sample.

#### **4.6.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-6**

##### **4.6.3.1 Soil**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, lead, iron, and manganese were detected above reference criteria in site soil (see Table 4-4).

Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected at concentrations above all MACs and above TACO Tier 1 ROs for residential soil exposure in sample 1314V3-06-B07 (0-4.3). Carbazole was also detected in the sample above the MAC, and the detected dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene concentrations were above the most stringent MACs and the Chicago MACs, but below the MSA MACs.

Benzo(a)pyrene was detected at a concentration above the most stringent MAC, but below the Chicago and MSA MACs in the following samples:

- 1314V3-06-B01 (0-8)
- 1314V3-06-B02 (0-8)
- 1314V3-06-B04 (0-5.2)
- 1314V3-06-B06 (0-4)
- 1314V3-06-B08 (0-5)

- 1314V3-06-B08 (5-10)
- 1314V3-06-B09 (0-2)
- 1314V3-06-B10 (0-6)
- 1314V3-06-B10 (6-11)

Benzo(a)anthracene was detected in sample 1314V3-06-B02 (0-8) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs. Benzo(b)fluoranthene was detected at a concentration above the most stringent MAC, but below the Chicago and MSA MACs in samples 1314V3-06-B02 (0-8), 1314V3-06-B08 (0-5), and 1314V3-06-B09 (0-2). Dibenzo(a,h)anthracene was detected at a concentration above the most stringent MAC In samples 1314V3-06-B02 (0-8) and 1314V3-06-B08 (0-5), but below the Chicago and MSA MACs.

Arsenic was detected in sample 1314V3-06-B01 (0-8) at a concentration above the MSA MAC and above the TACO Tier 1 RO for residential soil exposure. Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-06-B08 (5-10), and the concentration also exceeded the TACO Tier 1 RO for residential soil exposure.

Iron was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-06-B01 (0-8). Manganese was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-06-B02 (0-8). TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in the following samples; however, the total manganese concentrations detected in the samples were below the most stringent MAC:

- 1314V3-06-B03 (0-4)
- 1314V3-06-B04 (0-5.2)
- 1314V3-06-B05 (0-8)
- 1314V3-06-B07 (0-4.3)
- 1314V3-06-B08 (0-5)
- 1314V3-06-B09 (0-2)
- 1314V3-06-B11 (6-10.7)

Weston advanced 20 borings (VL1-1 through VL1-19 and VB-5) at ISGS #1314V3-6 (Vacant Lot) under PTB No. 167-034, Work Order No. 040. Summary tables and figures from the Weston PSI are included as Appendix E.

No other COCs were identified at the site. Chromium was detected above the MAC in six of the samples, but TCLP chromium was only detected in one of the samples, and at a concentration below the TACO Class 1 SCGIER. Total iron was detected above the MAC in six samples in addition to sample 1314V3-06-B01 (0-8); however, TCLP iron was either not detected in the respective samples,

or the detected concentration did not exceed the TACO Class 1 SCGIER. Total lead was detected at concentrations above the MAC in samples 1314V3-06-B01 (0-8), 1314V3-06-B06 (0-4), and 1314V3-06-B08 (0-5), but TCLP lead was not detected above applicable reference concentrations in the samples. Selenium and thallium were detected at concentrations above the MACs in sample 1314V3-06-B01 (0-8), but neither analyte were detected by TCLP analysis.

Manganese and nickel were detected above applicable reference concentrations by total and TCLP analyses in sample 1314V3-06-B01 (0-8); however, SPLP manganese and nickel did not exceed the applicable reference concentrations. Cadmium was detected above applicable reference concentrations by total and TCLP analyses in sample 1314V3-06-B08 (5-10); however, the detected SPLP cadmium concentration was below the TACO Class 1 SCGIER.

TCLP cadmium was detected at concentrations above the TACO Class 1 SCGIER in samples 1314V3-06-B02 (0-8), 1314V3-06-B07 (0-4.3), 1314V3-06-B08 (0-5), and 1314V3-06-B08 (5-10); however, cadmium was not detected above applicable reference concentrations by total and SPLP analyses. TCLP manganese was detected at concentrations above the TACO Class 1 SCGIER in samples 1314V3-06-B06 (0-4), 1314V3-06-B08 (5-10), 1314V3-06-B10 (0-6), and 1314V3-06-B10 (6-11); however, manganese was not detected in the samples above applicable reference concentrations by total and SPLP analyses. TCLP zinc was detected at a concentration above the TACO Class 1 SCGIER in sample 1314V3-06-B08 (5-10); however, zinc was not detected above applicable reference concentrations by total and SPLP analyses. VOCs were not detected during head-space screening of site soil, and the sample pH levels were within the acceptable range for management of the soil at a CCDD facility or USFO.

#### **4.6.3.2 Groundwater**

Iron, lead, and manganese were detected at concentrations above their respective TACO Tier 1 ROs for Class 1 groundwater in the groundwater sample (see Table 4-3). The iron concentration also exceeded the TACO Tier 1 RO for Class 2 groundwater. The extent of the TACO exceedances in groundwater cannot be determined from existing information. The installation of permanent wells would be necessary to determine the nature and extent of the TACO exceedances in groundwater.

### **4.6.4 IDOT Construction Activities at ISGS #1314V3-6**

#### **4.6.4.1 Soil**

Construction activities anticipated at this site include ramp and ditch construction; bridge pier and storm sewer installation; and removal of unsuitable material. Excavations associated with the improvements are estimated to extend to a maximum depth of 20 feet bgs for removal of unsuitable material.

The assumed areas of impact and COCs are depicted on Figures 4-1, 4-2, 4-6, 4-7, and 4-8. Additional information from the Weston PSI is presented on Figures

4-1d, 4-1e, 4-3a and 4-3b in Appendix E. Table 4-5 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

#### **4.6.4.2 Groundwater**

Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-06-B10 at the location of a proposed bridge pier and storm sewer. Excavation in the vicinity of the boring is proposed to an approximate depth of 12 feet bgs; consequently, it is anticipated that groundwater will be encountered during construction at the site.

Based on the COCs detected in groundwater (inorganics), and the type of construction activity (bridge pier and storm sewer), it is anticipated that any groundwater encountered during construction will be managed within the excavation. Consequently, E & E has not included an estimated cost for off-site groundwater management.

### **4.7 ISGS #1314V3-7 (River Stone Moline Yard)**

#### **4.7.1 Field Observations at ISGS #1314V3-7**

E & E advanced four borings (1314V3-07-B01 through 1314V3-07-B04) at ISGS #1314V3-7 (River Stone Moline Yard) (see Table 4-1 and Figure 4-1). Borings 1314V3-07-B01 and 1314V3-07-B02 were terminated before reaching the proposed completion depths of 15 and 13 feet bgs respectively; due to the presence of groundwater. E & E collected only one soil sample from each of the two borings. E & E encountered refusal at 5.5 feet in boring 1314V3-07-B03 and collected only one soil sample from the boring for laboratory analysis. E & E collected groundwater sample 1314V3-07-G01 at boring 1314V3-07-B01.

E & E detected VOCs during headspace screening of samples from boring 1314V3-07-B02. PID readings between 3.6 and 33.7 meter units (MU) were detected from the ground surface to 5 feet bgs in boring 1314V3-07-B02. A strong petroleum odor was noticed emanating from the soil samples, and E & E observed sheen on the groundwater encountered in this boring.

#### **4.7.2 Analytical Results for ISGS #1314V3-7**

##### **4.7.2.1 Soil**

Acetone, MEK, and 2-hexanone (methyl butyl ketone [MBK]) were detected in site samples (see Table 4-2). MBK was the only VOC detected in the sample from boring 1314V3-07-B02. Twenty SVOCs, primarily PAHs, were detected in the site samples. Twenty-two metals were detected in the samples, and ten of the metals were also detected by TCLP analysis. Based on the TCLP metals results, two samples were analyzed for SPLP cadmium, one sample was analyzed for SPLP iron and lead, and four of the samples were analyzed for SPLP manganese. Manganese was detected in three of the four samples by SPLP analysis. The other analytes were not detected by SPLP. The sample pH levels ranged from 8 to 9.6 SU.

#### **4.7.2.2 Groundwater**

Analytes detected in groundwater at the site are presented in Table 4-3. Analysis of the groundwater sample did not reveal the presence of VOCs. Twelve SVOCs and sixteen metals were detected in the groundwater sample.

#### **4.7.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-7**

##### **4.7.3.1 Soil**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, and manganese were detected above reference criteria in site soil (see Table 4-4).

The following borings contained one or more PAHs at concentrations above the respective MSA MAC, and above a TACO Tier 1 RO for residential soil exposure:

- 1314V3-07-B01 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene)
- 1314V3-07-B03 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene)
- 1314V3-07-B04 (benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene)

Dibenzo(a,h)anthracene was detected at a concentration above the most stringent and Chicago MACs, but below the MSA MAC in sample 1314V3-07-B02 (0-5). Indeno(1,2,3-cd)pyrene was detected at a concentration above the most stringent and Chicago MACs, but below the MSA MAC in sample 1314V3-07-B03 (0-5.5).

Benzo(a)anthracene was detected in samples 1314V3-07-B02 (0-5) and 1314V3-07-B04 (0-5) at concentrations above the most stringent MAC, but below the Chicago and MSA MACs. Benzo(a)pyrene and benzo(b)fluoranthene were also detected in sample 1314V3-07-B02 (0-5) at concentrations above the most stringent MACs, but below the Chicago and MSA MACs.

Arsenic was detected at a concentration above the MSA MAC and the TACO Tier 1 RO for residential soil exposure in sample 1314V3-07-B03 (0-5.5). TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in sample 1314V3-07-B05 (5-11); however, the total manganese concentration detected in the sample was below the most stringent MAC.

No other COCs were identified at the site. Manganese was detected above applicable reference concentrations by total and TCLP analyses in samples 1314V3-07-B02 (0-5) and 1314V3-07-B03 (0-5.5); however, SPLP manganese was not detected above applicable reference concentrations in the samples. Iron and lead were detected above applicable reference concentrations by total and TCLP

analyses in sample 1314V3-07-B03 (0-5.5); however, the analytes were not detected in the sample by SPLP analysis.

Boron was detected above the MAC in samples 1314V3-07-B03 (0-5.5) and 1314V3-07-B04 (0-5); however, the detected TCLP boron concentrations were below the TACO Class 1 SCGIER. Chromium and selenium were detected at concentrations above the respective MACs in sample 1314V3-07-B03 (0-5.5), but neither analyte was detected in the sample by TCLP analysis. Iron was detected at concentrations above MACs in samples 1314V3-07-B02 (0-5) and 1314V3-07-B04 (0-5), but iron was not detected by TCLP analysis. TCLP manganese was detected at a concentration above the TACO Class 1 SCGIER in sample 1314V3-07-B04 (0-5); however, manganese was not detected above applicable reference concentrations by total or SPLP analyses.

VOCs were detected during PID headspace screening of soil from boring 1314V3-07-B02. The sample pH of 9.6 from sample 1314V3-07-B01 (0-6) was above the acceptable range for management of the soil at a CCDD facility or USFO. The remaining sample pH levels were within the acceptable range.

#### **4.7.3.2 Groundwater**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, iron, lead and manganese were detected at concentrations above the respective TACO Tier 1 ROs for Class 1 groundwater in sample 1314V3-07-G01 (see Table 4-3). The detected iron concentration also exceeded the TACO Tier 1 RO for Class 2 groundwater. A groundwater sample was not collected at boring 1314V3-07-B02, but groundwater encountered in that boring exhibited sheen indicative of chemical contamination. The extent of the groundwater impacts cannot be determined from existing information. The installation of permanent wells would be necessary to determine the nature and extent of the TACO exceedances in groundwater.

### **4.7.4 IDOT Construction Activities at ISGS #1314V3-7**

#### **4.7.4.1 Soil**

Construction activities anticipated at this site include ramp and ditch construction; retaining wall and storm sewer installation; and removal of unsuitable materials. Excavations associated with the improvements are estimated to extend to a maximum depth of 20 feet bgs for removal of unsuitable material.

The assumed areas of impact and COCs are depicted on Figures 4-1 and 4-7. Table 4-5 presents an estimated volume of impacted soil within proposed construction excavation areas that will require proper handling and disposal if removed from the site.

#### **4.7.4.2 Groundwater**

Groundwater was encountered at a depth of 6 feet bgs in boring 1314V3-07-B01 and 5 feet bgs in boring 1314V3-07-B02. Excavation in the vicinity of the bor-

ings is proposed to an approximate depth of 20 feet bgs; consequently, it is anticipated that groundwater will be encountered during construction at the site.

Based on the COCs detected in groundwater (PAHs and inorganics), it is anticipated that groundwater encountered during storm sewer installation will be managed off site. Table 4-6 presents estimated volumes of impacted water within proposed construction excavation areas that will require proper handling and disposal. Although groundwater from boring 1314V3-07-B02 was not sampled, water from the boring exhibited visible contamination.

## **4.8 ISGS #1314V3-8 (Commercial Building)**

### **4.8.1 Field Observations at ISGS #1314V3-8**

E & E advanced one boring (1314V3-08-B01) at ISGS #1314V3-8 (Commercial Building) (see Table 4-1 and Figure 4-1). VOCs were not detected during head-space screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected two samples from the boring for laboratory analysis.

### **4.8.2 Analytical Results for ISGS #1314V3-8**

Acetone and MEK were the only VOCs detected in soil from the site (see Table 4-2). Eighteen SVOCs, primarily PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and nine of the metals were detected by TCLP analysis. Based on the TCLP metals results, samples were analyzed for antimony, cadmium, lead, and manganese by SPLP. Cadmium, lead, and manganese were detected by SPLP. The sample pH levels were 7.8 and 7.7 SU.

### **4.8.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-8**

Benzo(a)pyrene and lead were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)pyrene was detected in sample 1314V3-08-B01 (0-6) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs. TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in sample 1314V3-08-B01 (0-6); however, the total lead concentration detected in the sample was below the MAC.

No other COCs were identified at the site. Iron was detected at a concentration above MACs in sample 1314V3-08-B01 (6-12), but iron was not detected in the sample by TCLP analysis. TCLP manganese was detected at concentrations above the TACO Class 1 SCGIER in both samples; however, manganese was not detected in either sample at concentrations above applicable reference concentrations by total and SPLP analyses. TCLP antimony and cadmium were detected at concentrations above the TACO Class 1 SCGIER in samples 1314V3-08-B01 (0-6) and 1314V3-08-B01 (6-12), respectively; however, the analytes were not detected in the respective samples at concentrations above applicable reference concentrations by total and SPLP analyses.



Weston advanced 1 boring (CB-8) within the current proposed construction area at ISGS #1314V3-8 (Commercial Building) under PTB No. 167-034, Work Order No. 040. Summary tables and figures from the Weston PSI are included as Appendix E.

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

#### **4.8.4 IDOT Construction Activities at ISGS #1314V3-8**

##### **4.8.4.1 Soil**

Construction activities anticipated at this site include ramp construction, ditch work, and retaining wall and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 12 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-1 and 4-7. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

#### **4.9 ISGS #1314V3-11 (Vacant Land)**

##### **4.9.1 Field Observations at ISGS #1314V3-11**

E & E advanced three borings (1314V3-11-B01 through 1314V3-11-B03) at ISGS #1314V3-11 (Vacant Land) using a stainless steel hand auger (see Table 4-1 and Figure 4-2). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis, and a duplicate sample from boring 1314V3-11-B03.

##### **4.9.2 Analytical Results for ISGS #1314V3-11**

VOCs were not detected in soil from the site (see Table 4-2). Seventeen SVOCs, all PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and five of the metals were detected by TCLP analysis. Based on the TCLP metals results, all of the samples were analyzed for SPLP manganese, and SPLP manganese was detected in all the samples. The sample pHs ranged from 8.4 to 8.5 SU.

##### **4.9.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-11**

Benzo(a)pyrene and manganese were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)pyrene was detected in samples 1314V3-11-B02 (0-1), 1314V3-11-B03 (0-1), and 1314V3-11-B03 (0-1)D at concentrations above the most stringent MAC, but below the Chicago and MSA MACs. TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in

all of the samples; however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Lead was detected at a concentration above the MAC in sample 1314V3-11-B02 (0-1), but lead was not detected in the sample by TCLP analysis. VOCs were not detected during headspace screening of site soil, and the sample pHs were within the acceptable range for management of the soil at a CCDD facility or USFO.

#### **4.9.4 IDOT Construction Activities at ISGS #1314V3-11**

##### **4.9.4.1 Soil**

Construction activities anticipated at this site include grading. Excavations associated with the improvements are estimated to extend to a maximum depth of 5 inches bgs.

The assumed areas of impact and COCs are depicted on Figures 4-2 and 4-9. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

#### **4.10 ISGS #1314V3-17 (Parking Lot)**

##### **4.10.1 Field Observations at ISGS #1314V3-17**

E & E advanced three borings (1314V3-17-B01 through 1314V3-17-B03) at ISGS #1314V3-17 (Parking Lot) (see Table 4-1 and Figure 4-2). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis including a duplicate sample from 1314V3-17-B03.

E & E conducted a magnetometer survey at ISGS #1314V3-17 (Parking Lot) in an attempt to identify potential USTs within the project construction area. E & E surveyed the construction area surrounding borings 1314V3-17-B01, 1314V3-17-B02, and 1314V3-17-B03. E & E did not observe an anomaly indicative of an UST during the survey.

##### **4.10.2 Analytical Results for ISGS #1314V3-17**

VOCs were not detected in the samples from this site (see Table 4-2). Nineteen SVOCs, primarily PAHs, were detected in the site samples. Twenty metals were detected in the site samples, and nine of the metals were detected by TCLP analysis. Based on the TCLP metals results, all of the samples were analyzed for SPLP manganese, and manganese was detected in all the samples. Sample 1314V3-17-B02 (0-7) was also analyzed for SPLP lead, and lead was detected in the sample. The sample pH levels ranged from 7.1 to 7.9 SU.

### **4.10.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-17**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, arsenic, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(b)fluoranthene was detected in sample 1314V3-17-B02 (0-7) at a concentration above the most stringent MAC and Chicago MACs, but below the MSA MAC. Benzo(a)anthracene and benzo(a)pyrene were detected in sample 1314V3-17-B02 (0-7) at concentrations above the most stringent MACs, but below the Chicago and MSA MACs.

Arsenic was detected in sample 1314V3-17-B02 (0-7) at a concentration above the MSA MAC and also above the TACO Tier 1 RO for residential soil exposure. Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-17-B02 (0-7). TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in samples 1314V3-17-B02 (0-7), 1314V3-17-B03 (0-7), and 1314V3-17-B03 (0-7)D; however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Iron and selenium were detected above MACs in sample 1314V3-17-B02 (0-7); however, neither analyte was detected above applicable reference concentrations by TCLP analysis. TCLP manganese was detected at a concentration above the TACO Class 1 SCGIER in sample 1314V3-17-B01 (0-7), but manganese was not detected in the sample above applicable reference concentrations by total and SPLP analyses.

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

### **4.10.4 IDOT Construction Activities at ISGS #1314V3-17**

#### **4.10.4.1 Soil**

Construction activities anticipated at this site include grading. Excavations associated with the improvements are estimated to extend to a maximum depth of 7 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-2 and 4-9. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

### **4.11 ISGS #1314V3-18 (Vacant Land)**

#### **4.11.1 Field Observations at ISGS #1314V3-18**

E & E advanced nine borings (1314V3-18-B01 through 1314V3-18-B09) at ISGS #1314V3-18 (Vacant Land) (see Table 4-1 and Figure 4-2). E & E encountered refusal prior to reaching the proposed completion depth in borings 1314V3-18-

B03, 1314V3-18-B04, and 1314V3-18-B05 (see Table 3-1). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination.

E & E conducted a magnetometer survey and advanced borings 1314V3-18-B04, 1314V3-18-B07, 1314V3-18-B08, and 1314V3-18-B09 at ISGS #1314V3-18 (Vacant Land) in an attempt to identify potential USTs within the project construction area. E & E did not observe an anomaly indicative of an UST during the survey.

#### **4.11.2 Analytical Results for ISGS #1314V3-18**

Acetone and MEK were the only VOCs detected in the samples from this site (see Table 4-2). Twenty SVOCs, primarily PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and nine of the metals were detected by TCLP analysis. Based on the TCLP metals results, one sample was analyzed for SPLP cadmium, three samples were analyzed for SPLP lead, and all of the samples were analyzed for SPLP manganese. SPLP lead was detected in three samples, and SPLP manganese was detected in 16 of the 17 samples. The sample pH levels ranged from 7.6 to 8.7 SU.

#### **4.11.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-18**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, arsenic, lead, manganese, and thallium were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)pyrene was detected at concentrations above the most stringent MAC, but below the Chicago and MSA MACs, in samples 1314V3-18-B02 (7-13), 1314V3-18-B04 (0-5.3), 1314V3-18-B06 (0-6), and 1314V3-18-B08 (0-4.4). Benzo(a)anthracene and benzo(b)fluoranthene were also detected in sample 1314V3-18-B06 (0-6) at concentrations above the most stringent MACs, but below the Chicago and MSA MACs.

Arsenic and thallium were both detected in sample 1314V3-18-B09 (0-8) at concentrations above applicable MACs as well as TACO Tier 1 soil ROs for residential and construction worker exposure.

TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in the following samples; however, the total manganese concentrations detected in the samples were below the most stringent MAC:

- 1314V3-18-B01 (0-6)
- 1314V3-18-B01 (6-12)
- 1314V3-18-B01 (12-18)
- 1314V3-18-B03 (0-6)
- 1314V3-18-B03 (6-12)
- 1314V3-18-B04 (0-5.3)

- 1314V3-18-B05 (0-8)
- 1314V3-18-B06 (0-6)
- 1314V3-18-B06 (12-17)
- 1314V3-18-B08 (0-4.4)
- 1314V3-18-B09 (0-8)

TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in samples 1314V3-18-B05 (0-8), 1314V3-18-B06 (6-12), and 1314V3-18-B08 (0-4.4); however, the total lead concentrations detected in the samples were below the MAC.

No other COCs were identified at the site. Iron was detected above MACs in samples 1314V3-18-B02 (0-7)D, 1314V3-18-B06 (6-12), and 1314V3-18-B09 (0-8); however, the TCLP iron was not detected in the samples at concentrations above the TACO Class 1 SCGIER. Beryllium, boron, and selenium were detected above MACs in sample 1314V3-18-B09 (0-8); however, the detected TCLP boron concentration did not exceed the TACO Class 1 SCGIER, and the other analytes were not detected by TCLP. TCLP manganese was detected at a concentration above the TACO Class 1 SCGIER in samples 1314V3-18-B02 (0-7), 1314V3-18-B02 (0-7)D, 1314V3-18-B02 (7-13), 1314V3-18-B05 (8-12), 1314V3-18-B06 (6-12), and 1314V3-18-B07 (0-8), but manganese was not detected in the samples above applicable reference concentrations by total and SPLP analyses. TCLP cadmium was detected at a concentration above the TACO Class 1 SCGIER in sample 1314V3-18-B06 (6-12), but cadmium was not detected above applicable reference concentrations by total and SPLP analyses.

Weston advanced 8 borings (VL2-2 through VL2-6 and VL2-8 through VL2-10) within the proposed construction at ISGS #1314V3-18 (Vacant Land) under PTB No. 167-034, Work Order No. 040. Summary tables and figures from the Weston PSI are included as Appendix E.

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

#### **4.11.4 IDOT Construction Activities at ISGS #1314V3-18**

##### **4.11.4.1 Soil**

Construction activities anticipated at this site include ramp construction; bridge pier, retention wall, and storm sewer installation; and grading. Excavations associated with the improvements are estimated to extend to a maximum depth of 18 feet bgs for pier installation.

The assumed areas of impact and COCs are depicted on Figures 4-2, 4-9 and 4-10. Table 4-5 presents an estimated volume of impacted soil within the pro-

posed construction excavation area that will require proper handling and disposal if removed from the site.

## **4.12 ISGS #1314V3-21 (BNSF Railroad)**

### **4.12.1 Field Observations at ISGS #1314V3-21**

E & E advanced two borings (1314V3-21-B01 and 1314V3-21-B02) at ISGS #1314V3-21 (BNSF Railroad) (see Table 4-1 and Figure 4-2). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected two samples from boring 1314V3-21-B01 and one sample from boring 1314V3-21-B02 for laboratory analysis. A duplicate sample was also collected at boring 1314V3-21-B02.

### **4.12.2 Analytical Results for ISGS #1314V3-21**

Acetone and MEK were the only VOCs detected in the samples from this site (see Table 4-2). Both of the VOCs were detected in the original and duplicate sample from boring 1314V3-21-B02. Nineteen SVOCs, primarily PAHs, were detected in the site samples. PCB-1260 was detected in sample 1314V3-21-B01 (5-10).

Twenty-two metals were detected in the site samples, and nine of the metals were detected by TCLP analysis. Based on the TCLP metals results, sample 1314V3-21-B01 (0-5) was analyzed for SPLP manganese, and sample 1314V3-21-B02 (0-6) was analyzed for SPLP antimony, lead, and manganese. Duplicate sample 1314V3-21-B02 (0-6)D was analyzed for SPLP lead and manganese. Each of the analytes was detected in the respective sample. The sample pH levels ranged from 7.5 to 7.8 SU.

### **4.12.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-21**

Benzo(a)pyrene, antimony, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)pyrene was detected at concentrations above the most stringent MAC, but below the Chicago and MSA MACs, in samples 1314V3-21-B01 (0-5), 1314V3-21-B02 (0-6), and 1314V3-21-B02 (0-6)D. Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in samples 1314V3-21-B02 (0-6) and 1314V3-21-B02 (0-6)D.

TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in samples 1314V3-21-B01 (0-5), 1314V3-21-B02 (0-6), and 1314V3-21-B02 (0-6)D; however, the total manganese concentrations detected in the samples were below the most stringent MAC. TCLP and SPLP antimony were detected above the TACO Class 1 SCGIER in sample 1314V3-21-B02 (0-6); however, the total antimony concentration detected in the sample was below the most MAC.

No other COCs were identified at the site. Boron, selenium, iron and thallium were detected in one or more samples at a concentration above the MAC; how-

ever none of the analytes were detected above applicable reference concentrations by TCLP analysis.

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

#### **4.12.4 IDOT Construction Activities at ISGS #1314V3-21**

##### **4.12.4.1 Soil**

Construction activities anticipated at this site include ramp and storm sewer construction. Excavations associated with the improvements are estimated to extend to a maximum depth of 10 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-2 and 4-10. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

#### **4.13 ISGS #1314V3-24 (John Deere)**

##### **4.13.1 Field Observations at ISGS #1314V3-24**

E & E advanced 14 borings (1314V3-24-B01 through 1314V3-24-B14) at ISGS #1314V3-24 (John Deere) (see Table 4-1 and Figures 4-2 and 4-3). Boring 1314V3-24-B09 was advanced with a stainless steel hand auger. Boring 1314V3-24-B01 encountered refusal and only one soil sample was collected from this boring. VOCs were not detected during headspace screening of site soils, and the soils did not exhibit evidence of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis. A duplicate sample was also collected from boring 1314V3-24-B04.

E & E conducted a magnetometer survey at ISGS #1314V3-24 (John Deere) and advanced borings 1314V3-24-B11, 1314V3-24-B12, 1314V3-24-B13, and 1314V3-24-B14 in an attempt to identify potential USTs within the project construction area. E & E detected a small rectangular anomaly measuring approximately 2 feet long and 3 feet wide in a parking lot north of 5<sup>th</sup> Avenue in the vicinity of the above-mentioned borings. The location of the anomaly is shown on Figure 4-3 and photographs of the area are included in Appendix D.

##### **4.13.2 Analytical Results for ISGS #1314V3-24**

Tetrachloroethene (perchloroethylene [PCE]) and total xylenes were detected in samples from this site (see Table 4-2). PCE was detected in sample 1314V3-24-B06 (0-4), and PCE and xylenes were detected in sample 1314V3-24-B13 (0-6).

Twenty SVOCs, primarily PAHs, were detected in the site samples. Twenty-three metals were detected in the site samples, and nine of the metals were detected by TCLP analysis. Based on the TCLP metals results, five samples were analyzed for SPLP antimony, 10 samples were analyzed for SPLP lead, and 20 samples

were analyzed for SPLP manganese. SPLP antimony and SPLP lead were detected in each of the respective samples analyzed for the metals. SPLP manganese was detected in 16 of the 20 samples analyzed. The sample pH levels ranged from 7.2 to 9 SU.

#### **4.13.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-24**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, antimony, arsenic, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4).

Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected in sample 1314V3-24-B10 (0-5) at concentrations above MSA MACs and above TACO Tier 1 ROs for residential soil exposure. Dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene were also detected in the sample at concentrations above the most stringent MACs and Chicago MACs but below the MSA MACs.

Benzo(a)pyrene was detected in the following samples at concentrations above the most stringent MAC, but below the Chicago and MSA MACs:

- 1314V3-24-B01 (0-5.8)
- 1314V3-24-B02 (0-5)
- 1314V3-24-B04 (0-5)
- 1314V3-24-B05 (0-5)
- 1314V3-24-B11 (0-6)
- 1314V3-24-B12 (0-6)

Benzo(a)anthracene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were also detected in sample 1314V3-24-B04 (0-5) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs.

Arsenic was detected in samples 1314V3-24-B02 (0-5) and 1314V3-24-B08 (0-8) at concentrations above the MSA MAC and above the TACO Tier 1 soil ROs for residential and construction worker exposure. Antimony was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in samples 1314V3-24-B02 (0-5), 1314V3-24-B05 (0-5), 1314V3-24-B12 (0-6), and 1314V3-24-B13 (0-6).

Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in the following samples:

- 1314V3-24-B02 (0-5)
- 1314V3-24-B03 (0-5)
- 1314V3-24-B04 (0-5)



- 1314V3-24-B05 (0-5)
- 1314V3-24-B07 (0-5)
- 1314V3-24-B10 (0-5)
- 1314V3-24-B11 (0-6)
- 1314V3-24-B12 (0-6)
- 1314V3-24-B13 (0-6)
- 1314V3-24-B14 (0-6)

The total lead concentration detected in sample 1314V3-24-B02 (0-5) also exceeded the TACO Tier 1 RO for the residential soil exposure route.

Manganese was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in samples 1314V3-24-B04 (5-10), 1314V3-24-B06 (0-4) and 1314V3-24-B12 (0-6). The total manganese concentration detected in sample 1314V3-24-B12 (0-6) also exceeded the TACO Tier 1 RO for the residential soil exposure route.

TCLP and SPLP antimony were detected above the TACO Class 1 SCGIER in sample 1314V3-24-B04 (0-5); however, the total antimony concentration detected in the sample was below the MAC. TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in the following samples, but the total manganese concentrations detected in the samples were below the most stringent MAC:

- 1314V3-24-B03 (0-5)
- 1314V3-24-B03 (5-10)
- 1314V3-24-B04 (0-5)
- 1314V3-24-B04 (5-10)D
- 1314V3-24-B05 (0-5)
- 1314V3-24-B07 (0-5)
- 1314V3-24-B09 (0-4)
- 1314V3-24-B11 (0-6)

No other COCs were identified at the site. Total concentrations of boron, chromium, iron, manganese, selenium, and thallium were detected in samples at concentrations above applicable reference concentrations; however, the analytes were not detected in the samples by TCLP analysis, or the detected concentrations were below applicable reference concentrations.

Manganese was detected above applicable reference concentrations by total and TCLP analyses in samples 1314V3-24-B02 (0-5), 1314V3-24-B10 (0-5), and 1314V3-24-B13 (0-6); however, manganese was not detected above applicable reference concentrations by SPLP analysis. TCLP manganese was detected at a

concentration above the TACO Class 1 SCGIER in samples 1314V3-24-B01 (0-5.8), 1314V3-24-B02 (5-10), 1314V3-24-B11 (6-12), 1314V3-24-B12 (6-12), and 1314V3-24-B14 (6-12), but manganese was not detected in the samples above applicable reference concentrations by total and SPLP analyses.

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

#### **4.13.4 IDOT Construction Activities at ISGS #1314V3-24**

##### **4.13.4.1 Soil**

Construction activities anticipated at this site include ramp construction, and installation of pier, retaining wall, and storm sewer. Excavations associated with the improvements are estimated to extend to a maximum depth of 10 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-2, 4-3, 4-11, 4-12 and 4-13. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site. E & E identified an anomaly that could possibly be an UST. Consequently, E & E has included an estimated cost for removal of one UST during construction activities.

#### **4.14 ISGS #1314V3-25 (Sivyer Steel Corp.)**

##### **4.14.1 Field Observations at ISGS #1314V3-25**

E & E advanced seven borings (1314V3-25-B01 through 1314V3-25-B07) at ISGS #1314V3-25 (Sivyer Steel Corp.) (see Table 4-1 and Figures 4-2 and 4-3). Four of the borings were advanced within the existing building on-site. VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample from boring 1314V3-25-B03 for laboratory analysis, and two samples from each of the other borings.

##### **4.14.2 Analytical Results for ISGS #1314V3-25**

VOCs were not detected in soil from this site (see Table 4-2). Nineteen SVOCs, primarily PAHs, were detected in the site samples. Twenty-three metals were detected in the site samples, and ten of the metals were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was conducted for antimony (two samples), cadmium (two samples), lead (four samples), and manganese (10 samples). Antimony, lead, and manganese were detected by SPLP analysis. The sample pH levels ranged from 7 to 8.5 SU.

##### **4.14.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-25**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, antimony, arsenic, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4).

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)-anthracene were detected in sample 1314V3-25-B01 (0-6) at concentrations above the MSA MACs and also above the TACO Tier 1 ROs for residential soil exposure. Indeno(1,2,3-cd)pyrene was also detected in the sample at a concentration above the Chicago MAC, but below the MSA MAC.

Benzo(a)pyrene was detected in sample 1314V3-25-B05 (0-6) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs.

Benzo(a)anthracene and benzo(b)fluoranthene were detected at concentrations above MSA MACs and above TACO Tier 1 ROs for residential soil exposure in sample 1314V3-25-B06 (0-6). Benzo(a)pyrene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected in the sample at concentrations above Chicago MACs, but below the MSA MACs.

Arsenic was detected in sample 1314V3-25-B06 (0-6) at a concentration above the MSA MAC and the TACO Tier 1 RO for residential soil exposure. Antimony was also detected above applicable reference concentrations for total, TCLP, and SPLP analyses in the sample.

Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in samples 1314V3-25-B01 (0-6), 1314V3-25-B02 (0-6), 1314V3-25-B05 (0-6), and 1314V3-25-B06 (0-6). The total lead concentrations detected in samples 1314V3-25-B05 (0-6) and 1314V3-25-B06 (0-6) also exceeded the TACO Tier 1 ROs for residential soil exposure and construction worker exposure. Although lead was not detected by TCLP analysis in sample 1314V3-25-B03 (0-8), the total lead concentration detected in sample exceeded the TACO Tier 1 RO for residential soil exposure.

Manganese was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in samples 1314V3-25-B01 (0-6) and 1314V3-25-B05 (0-6). TCLP and SPLP antimony were detected above the TACO Class 1 SCGIER in sample 1314V3-25-B05 (0-6); however, the total antimony concentration detected in the sample was below the MAC. TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in samples 1314V3-25-B01 (6-12), 1314V3-25-B02 (6-12), 1314V3-25-B03 (0-8), 1314V3-25-B04 (6-12), and 1314V3-25-B07 (0-6); however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Total concentrations of antimony, boron, chromium, iron, manganese, and selenium were detected in samples at concentrations above applicable reference concentrations; however, the analytes were not detected in the samples by TCLP analysis, or the detected concentrations were below applicable reference concentrations.

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

#### **4.14.4 IDOT Construction Activities at ISGS #1314V3-25**

##### **4.14.4.1 Soil**

Construction activities anticipated at this site include ramp construction, and bridge pier and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 12 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-2, 4-3, 4-11, 4-and 13. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

#### **4.15 ISGS #1314V3-26 (Commercial Building)**

##### **4.15.1 Field Observations at ISGS #1314V3-26**

E & E advanced two borings (1314V3-26-B01 and 1314V3-26-B02) at ISGS #1314V3-26 (Commercial Building) (see Table 4-1 and Figure 4-3). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis.

E & E conducted a magnetometer survey at ISGS #1314V3-26 (Commercial Building) in an attempt to identify potential USTs within the project construction area. E & E surveyed the construction area surrounding the existing building on the site. E & E did not observe an anomaly indicative of an UST during the survey.

##### **4.15.2 Analytical Results for ISGS #1314V3-26**

VOCs were not detected in soil from this site (see Table 4-2). Fourteen SVOCs, all PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and six of the metals were detected by TCLP analysis. Based on the TCLP metals results, sample 1314V3-26-B01 (0-8) was analyzed for SPLP manganese, and manganese was detected in the sample. Both samples exhibited a pH of 8.2 SU.

##### **4.15.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-26**

COCs were not identified in soil at ISGS #1314V3-26 (see Table 4-4). TCLP manganese was detected at a concentration above the TACO Tier 1 SCGIER; however, the total and SPLP manganese concentrations detected in the sample were below applicable reference concentrations. VOCs were not detected during headspace screening of site soil, and the sample pH levels were within the acceptable range for management of the soil at a CCDD facility or USFO.

#### **4.15.4 IDOT Construction Activities at ISGS #1314V3-26**

##### **4.15.4.1 Soil**

Construction activities anticipated at this site include ramp and retaining wall construction, and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 8 feet bgs.

The site borings and detected analytes are depicted on Figures 4-3 and 4-14. COCs were not identified at the site; consequently, E & E has not estimated a volume of impacted soil associated with the proposed construction excavation.

#### **4.16 ISGS #1314V3-32 (Commercial Buildings)**

##### **4.16.1 Field Observations at ISGS #1314V3-32**

E & E advanced eight borings (1314V3-32-B01 through 1314V3-32-B08) at ISGS #1314V3-32 (Commercial Buildings) (see Table 4-1 and Figures 4-3 and 4-4). The boring was advanced with a stainless steel hand auger. VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected two samples each from borings 1314V3-32-B01 through 1314V3-32-B04, and one sample each from borings 1314V3-32-B05 through 1314V3-32-B08 for laboratory analysis.

E & E conducted a magnetometer survey and advanced borings 1314V3-32-B01, 1314V3-32-B02, 1314V3-32-B03, 1314V3-32-B04, and 1314V3-32-B05 at ISGS #1314V3-32 (Commercial Buildings) in an attempt to identify potential USTs within the project construction area. E & E did not observe an anomaly indicative of an UST during the survey. This site was under demolition during E & E's field sampling activities. The on-site demolition supervisor informed E & E that fill sand was present to a depth of 11 feet bgs in the area of the suspected tank, indicating that the UST had been removed.

##### **4.16.2 Analytical Results for ISGS #1314V3-32**

VOCs were not detected in soil from this site (see Table 4-2). Fourteen SVOCs, primarily PAHs, were detected in the site samples. Twenty-three metals were detected in the site samples, and seven of the metals were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was conducted for manganese on nine of the 12 samples. SPLP manganese was detected in eight of the nine samples analyzed. The sample pH levels ranged from 7.6 to 8.9 SU.

##### **4.16.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-32**

Benzo(a)pyrene and manganese were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)pyrene was detected in samples 1314V3-32-B05 (0-3) and 1314V3-32-B06 (0-3) at concentrations above the most stringent MAC, but below the Chicago and MSA MACs.

TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in the following samples; however, the total manganese concentrations detected in the samples were below the most stringent MAC:

- 1314V3-32-B01 (0-6)
- 1314V3-32-B01 (6-12)
- 1314V3-32-B02 (0-6)
- 1314V3-32-B02 (6-12)
- 1314V3-32-B03 (0-6)
- 1314V3-32-B03 (6-12)
- 1314V3-32-B04 (0-6)
- 1314V3-32-B06 (0-3)

No other COCs were identified at the site. Chromium, iron, lead, and mercury were detected at concentrations above MACs in soil samples, but none of the analytes were detected by TCLP analysis. VOCs were not detected during headspace screening of site soil, and the sample pH levels were within the acceptable range for management of the soil at a CCDD facility or USFO.

#### **4.16.4 IDOT Construction Activities at ISGS #1314V3-32**

##### **4.16.4.1 Soil**

Construction activities anticipated at this site include road reconstruction. Excavations associated with the improvements are estimated to extend to a maximum depth of 3 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-3, 4-4, and 4-14. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

#### **4.17 ISGS #1314V3-33 (Parking Lot)**

##### **4.17.1 Field Observations at ISGS #1314V3-33**

E & E advanced seven borings (1314V3-33-B01 through 1314V3-33-B07) at ISGS #1314V3-33 (Parking Lot) (see Table 4-1 and Figure 4-3). E & E encountered refusal in boring 1314V3-33-B02 at 9.4 feet bgs. VOCs were detected in soil samples from boring 1314V3-33-B04 during sample headspace screening. A PID reading of 2.9 MU was detected from soil taken from the 10- to 12-foot depth interval of the boring. A petroleum odor was also noted from soil taken from the boring. E & E collected two samples from each boring for laboratory analysis.

E & E conducted a magnetometer survey and advanced borings 1314V3-33-B01, 1314V3-33-B03, 1314V3-33-B04, and 1314V3-33-B05 at ISGS #1314V3-33 (Parking Lot) in an attempt to identify potential USTs within the project construction area. This site was under demolition during a majority of E & E's field

activities, and the concrete parking lot had been removed prior to the magnetometer survey. E & E did not observe an anomaly indicative of an UST during the survey; however, the observations of petroleum odors and VOCs during head-space screening of soil from boring 1314V3-33-B04 indicate possible residual contamination from an UST.

#### **4.17.2 Analytical Results for ISGS #1314V3-33**

VOCs were not detected by laboratory analysis of soil from the site (see Table 4-2). Twenty SVOCs, primarily PAHs, were detected in the site samples. Twenty-one metals were detected in the site samples, and eight of the metals were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was conducted for cadmium (one sample), lead (three samples) and manganese (12 samples). Each of the metals were detected in the respective samples. The sample pH levels ranged from 7.6 to 8.8 SU.

#### **4.17.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-33**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected in sample 1314V3-33-B03 (0-6) at concentrations above MSA MACs and above TACO Tier 1 ROs for residential soil exposure. Carbazole was also detected above the MAC in the sample.

Benzo(a)pyrene was detected in samples 1314V3-33-B01 (0-6), 1314V3-33-B02 (0-5), and 1314V3-33-B04 (0-6) at concentrations above the most stringent MAC, but below the Chicago and MSA MACs.

Lead was detected above applicable reference concentrations by total, TCLP, and SPLP analyses in sample 1314V3-33-B04 (0-6). The total lead concentration detected in the sample exceeded TACO Tier 1 soil ROs for residential and construction worker exposure.

TCLP and SPLP manganese were detected in the following samples at concentrations above the TACO Class 1 SCGIER; however, the total manganese concentrations detected in the samples were below the most stringent MAC:

- 1314V3-33-B01 (0-6)
- 1314V3-33-B02 (0-5)
- 1314V3-33-B02 (5-9.4)
- 1314V3-33-B04 (0-6)
- 1314V3-33-B04 (6-12)
- 1314V3-33-B05 (0-6)

- 1314V3-33-B05 (6-12)
- 1314V3-33-B06 (0-6)
- 1314V3-33-B07 (0-8)
- 1314V3-33-B07 (0-8)D

TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in samples 1314V3-33-B07 (0-8) and 1314V3-33-B07 (0-8)D; however, the total lead concentrations detected in the samples were below the MAC.

No other COCs were identified at the site. TCLP cadmium was detected in sample 1314V3-33-B04 (0-6) at a concentration above the TACO Class 1 SCGIER, but cadmium was not detected in the sample above applicable reference concentrations by total and SPLP analyses. TCLP manganese was detected at concentrations above the TACO Class 1 SCGIER in samples 1314V3-33-B01 (6-12) and 1314V3-33-B06 (6-12), but manganese was not detected above applicable reference concentrations by total and SPLP analyses.

The sample pH levels were within the acceptable range for management of the soil at a CCDD facility or USFO; however, VOCs were detected during PID headspace screening of soil from boring 1314V3-33-B04.

#### **4.17.4 IDOT Construction Activities at ISGS #1314V3-33**

##### **4.17.4.1 Soil**

Construction activities anticipated at this site include sidewalk and road reconstruction. Excavations associated with the improvements are estimated to extend to a maximum depth of 11 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-3, 4-14, and 4-15. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

#### **4.18 ISGS #1314V3-56 (Commercial Building)**

##### **4.18.1 Field Observations at ISGS #1314V3-56**

E & E advanced three borings (1314V3-56-B01 through 1314V3-56-B03) at ISGS #1314V3-56 (Commercial Building) (see Table 4-1 and Figure 4-4). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis. A duplicate sample was collected at boring 1314V3-56-B02.

E & E conducted a magnetometer survey of existing IDOT ROW at ISGS #1314V3-56 (Commercial Buildings) in an attempt to identify potential USTs within the project construction area. E & E did not observe an anomaly indicative of an UST during the survey.



**4.18.2 Analytical Results for ISGS #1314V3-56**

VOCs were not detected in soil from this site (see Table 4-2). Eleven SVOCs, all PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and four of the metals were detected by TCLP analysis. Based on the TCLP metals results, all of the samples were analyzed for SPLP manganese, and manganese was detected in all the samples. The sample pH levels ranged from 8 to 9.1 SU.

**4.18.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-56**

Manganese was detected above reference concentrations in soil at the site (see Table 4-4). TCLP and SPLP manganese were detected in each of the samples at concentrations above the TACO Class 1 SCGIER; however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. VOCs were not detected during head-space screening of site soil. The pH levels for three of the samples were within the acceptable range for management of the soil at a CCDD facility or USFO; however, the pH of 9.1 SU for duplicate sample 1314V3-56-B02 (0-3)D exceeded the acceptable range for management of the soil at a CCDD facility or USFO.

**4.18.4 IDOT Construction Activities at ISGS #1314V3-56****4.18.4.1 Soil**

Construction activities anticipated at this site include road reconstruction. Excavations associated with the improvements are estimated to extend to a maximum depth of 3 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-4 and 4-16. Table 4-4 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

**4.19 ISGS #1314V3-57 (Old Chamber Building)****4.19.1 Field Observations at ISGS #1314V3-57**

E & E advanced three borings (1314V3-57-B01 through 1314V3-57-B03) at ISGS #1314V3-57 (Old Chamber Building) (see Table 4-1 and Figure 4-4). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis.

E & E conducted a magnetometer survey of existing ROW along 6<sup>th</sup> Ave at ISGS #1314V3-57 (Old Chamber Building) in an attempt to identify potential USTs within the project construction area. E & E did not observe an anomaly indicative of an UST during the survey.

**4.19.2 Analytical Results for ISGS #1314V3-57**

VOCs were not detected in soil from this site (see Table 4-2). Seventeen SVOCs, all PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and six of the metals were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was conducted for lead (one sample) and manganese (two samples). Lead and manganese were detected in the respective samples by SPLP analysis. The sample pH levels ranged from 8.1 to 8.7 SU.

**4.19.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-57**

Benzo(a)pyrene, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)pyrene was detected in samples 1314V3-57-B01 (0-3) and 1314V3-57-B02 (0-3) at concentrations above the most stringent MAC, but below the Chicago and MSA MACs.

TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in samples 1314V3-57-B02 (0-3) and 1314V3-57-B03 (0-5); however, the total manganese concentrations detected in the samples were below the most stringent MAC. TCLP and SPLP lead were detected above the TACO Class 1 SCGIER in sample 1314V3-57-B02 (0-3), but the total lead concentration detected in the sample was below the MAC.

No other COCs were identified at the site. VOCs were not detected during head-space screening of site soil, and the sample pHs were within the acceptable range for management of the soil at a CCDD facility or USFO.

**4.19.4 IDOT Construction Activities at ISGS #1314V3-57**

Construction activities anticipated at this site include road reconstruction and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 5 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-4 and 4-16. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

**4.20 ISGS #1314V3-59 (Residence)****4.20.1 Field Observations at ISGS #1314V3-59**

E & E advanced one boring (1314V3-59-B01) at ISGS #1314V3-59 (Residence) (see Table 4-1 and Figure 4-4). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected two samples from the boring for laboratory analysis.

#### **4.20.2 Analytical Results for ISGS #1314V3-59**

VOCs were not detected in soil from this site (see Table 4-2). Six SVOCs, all PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and six of the metals were detected by TCLP analysis. Based on the TCLP metals results, both of the samples were analyzed for SPLP manganese, and manganese was detected in each sample. The sample pH levels were 8.2 and 8.3 SU.

#### **4.20.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-59**

Manganese was detected above reference concentrations in soil at the site (see Table 4-4). TCLP and SPLP manganese were detected above the TACO Class 1 SCGIER in both samples; however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Selenium was detected above the MAC in sample 1314V3-59-B01 (5-10); however, the detected TCLP selenium concentration was below the TACO Class 1 SCGIER. VOCs were not detected during headspace screening of site soil, and the sample pHs were within the acceptable range for management of the soil at a CCDD facility or USFO.

#### **4.20.4 IDOT Construction Activities at ISGS #1314V3-59**

Construction activities anticipated at this site include road reconstruction and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 10 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-4 and 4-17. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

### **4.21 ISGS #1314V3-60 (Vacant Lot)**

#### **4.21.1 Field Observations at ISGS #1314V3-60**

E & E advanced six borings (1314V3-60-B01 through 1314V3-60-B06) at ISGS #1314V3-60 (Vacant Lot) (see Table 4-1 and Figures 4-3 and 4-4). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample for laboratory analysis from boring 1314V3-60-B02, and two samples from each of the other borings.

#### **4.21.2 Analytical Results for ISGS #1314V3-60**

VOCs were not detected in soil from this site (see Table 4-2). Eighteen SVOCs, primarily PAHs, were detected in the site samples. Twenty-one metals were detected in the site samples, and seven of the metals were detected by TCLP analysis. Based on the TCLP metals results, SPLP analysis was conducted for lead (one sample) and manganese (one sample). Both of the analytes were

detected in the respective samples by SPLP analysis. The sample pH levels ranged from 7.5 to 11.8 SU.

#### **4.21.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #1314V3-60**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4). Benzo(a)anthracene was detected in sample 1314V3-60-B06 (0-6) at a concentration above the Chicago MACs but below the MSA MAC. Benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were also detected in the sample at concentrations above the most stringent MACs but below the Chicago and MSA MACs

Benzo(a)pyrene was detected in sample 1314V3-60-B02 (0-7) at a concentration above the most stringent MAC, but below the Chicago and MSA MACs. TCLP and SPLP lead were also detected in the sample at concentrations above the TACO Class 1 SCGIER, but the total lead concentration detected in the sample was below the MAC.

TCLP and SPLP manganese were detected at concentrations above the TACO Class 1 SCGIER in sample 1314V3-60-B04 (0-5), but the total manganese concentration detected in the sample was below the most stringent MAC.

No other COCs were identified at the site. Iron was detected at a concentration above MACs in sample 1314V3-60-B06 (6-12), but iron was not detected by TCLP analysis. Manganese was detected above MACs in samples 1314V3-60-B06 (0-6) and 1314V3-60-B06 (6-12); however, TCLP manganese was not detected in sample 1314V3-60-B06 (0-6), and the detected concentration in sample 1314V3-60-B06 (6-12) was below the TACO Class 1 SCGIER.

VOCs were not detected during headspace screening of site soil. The pH of 11.8 SU for sample 1314V3-60-B06 (0-6) exceeded the acceptable range for management of the soil at a CCDD facility or USFO. The pHs for the remaining samples were within the acceptable range.

#### **4.21.4 IDOT Construction Activities at ISGS #1314V3-60**

##### **4.21.4.1 Soil**

Construction activities anticipated at this site include road reconstruction and storm sewer installation. Excavations associated with the improvements are estimated to extend to a maximum depth of 12 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-3, 4-4, 4-15, and 4-17. Table 4-5 presents an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

**Table 4-1 Field Observations and Sampling Rationale  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Magnetometer Survey Conducted?	Evidence of UST?	Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
<b>ISGS #1314V3-1 (Parking Lot)</b>							
No	NA	1314V3-01-B01	11	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-11	Sampled within proposed construction excavation depth.
		1314V3-01-B02	8	None Detected	None	0-8	Sampled within proposed construction excavation depth.
		1314V3-01-B03	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.
		1314V3-01-B04	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-11.2	Sampled within proposed construction excavation depth.
		1314V3-01-B05	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
		1314V3-01-B06	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.
						8-15	Sampled within proposed construction excavation depth.
		1314V3-01-B07	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
				6-12	Sampled within proposed construction excavation depth.		
1314V3-01-B08	--	None Detected	None	0-4	Sampled within proposed construction excavation depth.		
				4-9	Sampled within proposed construction excavation depth.		
1314V3-01-B09	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
				6-11.2	Sampled within proposed construction excavation depth.		
1314V3-01-B10	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
1314V3-01-B11	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.		
				8-15	Sampled within proposed construction excavation depth.		
<b>ISGS #1314V3-2 (Mississippi River)</b>							
No	NA	1314V3-02-B01	11	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
		1314V3-02-B02	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>							
Yes	No	1314V3-04-B01	11	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-11	Sampled within proposed construction excavation depth.

4-40

**Table 4-1 Field Observations and Sampling Rationale  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Magnetometer Survey Conducted?	Evidence of UST?	Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
<b>ISGS #1314V3-5 (Industrial Building)</b>							
Yes	No	1314V3-05-B01	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
		1314V3-05-B02	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-10.5	Sampled within proposed construction excavation depth.
		1314V3-05-B03	--	None Detected	None	0-5.9	Sampled within proposed construction excavation depth.
<b>ISGS #1314V3-6 (Vacant Land)</b>							
No	NA	1314V3-06-B01	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.
		1314V3-06-B02	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.
		1314V3-06-B03	--	None Detected	None	0-4	Sampled within proposed construction excavation depth.
		1314V3-06-B04	--	None Detected	None	0-5.2	Sampled within proposed construction excavation depth.
		1314V3-06-B05	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.
		1314V3-06-B06	--	None Detected	asphalt odor	0-4	Sampled within proposed construction excavation depth.
		1314V3-06-B07	--	None Detected	None	0-4.3	Sampled within proposed construction excavation depth.
		1314V3-06-B08	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-10	Sampled within proposed construction excavation depth.
		1314V3-06-B09	--	None Detected	None	0-2	Sampled within proposed construction excavation depth.
		1314V3-06-B10	11	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-11	Sampled within proposed construction excavation depth.
1314V3-06-B11	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
				6-10.7	Sampled within proposed construction excavation depth.		
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>							
No	NA	1314V3-07-B01	6	None Detected	None	0-6	Sampled within proposed construction excavation depth.
		1314V3-07-B02	5	3.6 - 33.7	Strong petroleum odor and sheen on groundwater at five feet bgs.	0-5	Sampled within proposed construction excavation depth.
		1314V3-07-B03	--	None Detected	None	0-5.5	Sampled within proposed construction excavation depth.
		1314V3-07-B04	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
5-11	Sampled within proposed construction excavation depth.						
<b>ISGS #1314V3-8 (Commercial Building)</b>							
No	NA	1314V3-08-B01	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.

4-41

**Table 4-1 Field Observations and Sampling Rationale  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Magnetometer Survey Conducted?	Evidence of UST?	Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
<b>ISGS #1314V3-11 (Vacant Land)</b>							
No	NA	1314V3-11-B01	--	None Detected	None	0-1	Sampled within proposed construction excavation depth.
		1314V3-11-B02	--	None Detected	None	0-1	Sampled within proposed construction excavation depth.
		1314V3-11-B03	--	None Detected	None	0-1	Sampled within proposed construction excavation depth.
<b>ISGS #1314V3-17 (Parking Lot)</b>							
Yes	No	1314V3-17-B01	--	None Detected	None	0-7	Sampled within proposed construction excavation depth.
		1314V3-17-B02	--	None Detected	None	0-7	Sampled within proposed construction excavation depth.
		1314V3-17-B03	--	None Detected	None	0-7	Sampled within proposed construction excavation depth.
<b>ISGS #1314V3-18 (Vacant Land)</b>							
Yes	No	1314V3-18-B01	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
						12-18	Sampled within proposed construction excavation depth.
		1314V3-18-B02	--	None Detected	None	0-7	Sampled within proposed construction excavation depth.
						7-13	Sampled within proposed construction excavation depth.
		1314V3-18-B03	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
		1314V3-18-B04	--	None Detected	None	0-5.3	Sampled within proposed construction excavation depth.
						0-8	Sampled within proposed construction excavation depth.
		1314V3-18-B05	--	None Detected	None	8-12	Sampled within proposed construction excavation depth.
						0-6	Sampled within proposed construction excavation depth.
		1314V3-18-B06	--	None Detected	None	6-12	Sampled within proposed construction excavation depth.
12-17	Sampled within proposed construction excavation depth.						
0-8	Sampled within proposed construction excavation depth.						
1314V3-18-B07	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.		
1314V3-18-B08	--	None Detected	None	0-4.4	Sampled within proposed construction excavation depth.		
1314V3-18-B09	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.		
<b>ISGS #1314V3-21 (BNSF Railroad)</b>							
No	NA	1314V3-21-B01	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-10	Sampled within proposed construction excavation depth.
		1314V3-21-B02	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.

4-42

**Table 4-1 Field Observations and Sampling Rationale  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Magnetometer Survey Conducted?	Evidence of UST?	Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
<b>ISGS #1314V3-24 (John Deere)</b>							
Yes	Yes, a small (2 x 3-foot) anomaly was detected in an area with a previously reported UST between borings 1314V3-24-B11, -B12, -B13, -B14.	1314V3-24-B01	--	None Detected	None	0-5.8	Sampled within proposed construction excavation depth.
		1314V3-24-B02	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-10	Sampled within proposed construction excavation depth.
		1314V3-24-B03	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-10	Sampled within proposed construction excavation depth.
		1314V3-24-B04	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-10	Sampled within proposed construction excavation depth.
		1314V3-24-B05	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-10	Sampled within proposed construction excavation depth.
		1314V3-24-B06	--	None Detected	None	0-4	Sampled within proposed construction excavation depth.
		1314V3-24-B07	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
		1314V3-24-B08	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.
		1314V3-24-B09	--	None Detected	None	0-4	Sampled within proposed construction excavation depth.
		1314V3-24-B10	--	None Detected	None	None	0-5
0-6	Sampled within proposed construction excavation depth.						
1314V3-24-B11	--	None Detected	None	None	6-12	Sampled within proposed construction excavation depth.	
					0-6	Sampled within proposed construction excavation depth.	
1314V3-24-B12	--	None Detected	None	None	6-12	Sampled within proposed construction excavation depth.	
					0-6	Sampled within proposed construction excavation depth.	
1314V3-24-B13	--	None Detected	None	None	0-6	Sampled within proposed construction excavation depth.	
					6-12	Sampled within proposed construction excavation depth.	
1314V3-24-B14	--	None Detected	None	None	0-6	Sampled within proposed construction excavation depth.	
					6-12	Sampled within proposed construction excavation depth.	
<b>ISGS #1314V3-25 (Sivyer Steel Corp.)</b>							
No	NA	1314V3-25-B01	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
		1314V3-25-B02	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
		1314V3-25-B03	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.

4-43



**Table 4-1 Field Observations and Sampling Rationale  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Magnetometer Survey Conducted?	Evidence of UST?	Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale		
No	NA	1314V3-25-B04	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
		1314V3-25-B05	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
		1314V3-25-B06	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
		1314V3-25-B07	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
<b>ISGS #1314V3-26 (Commercial Building)</b>									
Yes	No	1314V3-26-B01	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.		
		1314V3-26-B02	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.		
<b>ISGS #1314V3-32 (Commercial Building)</b>									
Yes	No	1314V3-32-B01	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
		1314V3-32-B02	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
		1314V3-32-B03	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
		1314V3-32-B04	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.		
						6-12	Sampled within proposed construction excavation depth.		
		1314V3-32-B05	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.		
		1314V3-32-B06	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.		
		1314V3-32-B07	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.		
		1314V3-32-B08	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.		
		<b>ISGS #1314V3-33 (Parking Lot)</b>							
		Yes	No	1314V3-33-B01	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
6-12	Sampled within proposed construction excavation depth.								
1314V3-33-B02	--			None Detected	None	0-5	Sampled within proposed construction excavation depth.		
						5-9.4	Sampled within proposed construction excavation depth.		

4-44

**Table 4-1 Field Observations and Sampling Rationale  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Magnetometer Survey Conducted?	Evidence of UST?	Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
Yes	No	1314V3-33-B03	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
		1314V3-33-B04	--	0.0 - 2.9	Petroleum odor noted in 10- to 12-foot depth interval	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.
		1314V3-33-B05	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-11	Sampled within proposed construction excavation depth.
		1314V3-33-B06	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
6-12	Sampled within proposed construction excavation depth.						
1314V3-33-B07	--	None Detected	None	0-8	Sampled within proposed construction excavation depth.		
<b>ISGS #1314V3-56 (Commercial Building)</b>							
Yes	No	1314V3-56-B01	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.
		1314V3-56-B02	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.
		1314V3-56-B03	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.
<b>ISGS #1314V3-57 (Old Chamber Building)</b>							
No	NA	1314V3-57-B01	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.
		1314V3-57-B02	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.
		1314V3-57-B03	--	None Detected	None	0-3	Sampled within proposed construction excavation depth.
<b>ISGS #1314V3-59 (Residence)</b>							
Yes	No	1314V3-59-B01	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-10	Sampled within proposed construction excavation depth.
<b>ISGS #1314V3-60 (Vacant Lot)</b>							
No	NA	1314V3-60-B01	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-11	Sampled within proposed construction excavation depth.
		1314V3-60-B02	--	None Detected	None	0-7	Sampled within proposed construction excavation depth.
		1314V3-60-B03	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
						5-9	Sampled within proposed construction excavation depth.
		1314V3-60-B04	--	None Detected	None	0-5	Sampled within proposed construction excavation depth.
		1314V3-60-B05	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
6-12	Sampled within proposed construction excavation depth.						

4-45

**Table 4-1 Field Observations and Sampling Rationale  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Magnetometer Survey Conducted?	Evidence of UST?	Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
No	NA	1314V3-60-B06	--	None Detected	None	0-6	Sampled within proposed construction excavation depth.
						6-12	Sampled within proposed construction excavation depth.

Key:

BGS = Below ground surface.

ISGS = Illinois State Geological Survey.

NA = Not applicable.

PID = Photoionization detector.

-- = Groundwater was not encountered in the boring.

UST = Underground storage tank.

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-1 (IDOT ROW)</b>					
<b>VOCs (mg/Kg)</b>					
2-Butanone (MEK)	0.02	--	--	--	--
Acetone	0.097	25	--	100,000	--
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.1	--	--	--	--
Acenaphthene	0.22	570	--	120,000	--
Acenaphthylene	0.038	--	--	--	--
Anthracene	0.65	12,000	--	610,000	--
Benzo(a)anthracene	<b>1.4</b>	0.9	1.8	170	--
Benzo(a)pyrene	<b>1.2</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>1.8</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.44	--	--	--	--
Benzo(k)fluoranthene	0.68	9.0	--	1,700	--
Carbazole	0.44	0.6	--	6,200	--
Chrysene	1.4	88	--	17,000	--
Dibenz(a,h)anthracene	<b>0.14</b>	0.09	0.42	17	--
Dibenzofuran	0.1	--	--	--	--
Diethyl phthalate	0.22	470	--	2,000	--
Fluoranthene	4.1	3,100	--	82,000	--
Fluorene	0.22	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.46	0.9	1.6	170	--
Naphthalene	0.08	1.8	--	1.8	--
Phenanthrene	2.3	--	--	--	--
Pyrene	2.4	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	4.7	5.0	--	82	--
Arsenic	8.4	11.3	13	61	--
Barium	120	1,500	--	14,000	--
Beryllium	0.73	22	--	410	--
Boron	15.0	40	--	41,000	--
Cadmium	1.9	5.2	--	200	--
Calcium	41,000	--	--	--	--
Chromium	17.0	21	--	690	--
Cobalt	8.5	20	--	12,000	--
Copper	35.0	2,900	--	8,200	--
Iron	<b>33,000</b>	15,000	15,900	--	--
Lead	78.0	107	--	700	--
Magnesium	19,000	325,000	--	730,000	--
Manganese	<b>770</b>	630	636	4,100	--
Mercury	0.47	0.89	--	0.1	--
Nickel	30.0	100	--	4,100	--
Potassium	610	--	--	--	--
Potassium	1,600	--	--	--	--
Selenium	0.76	1.3	--	1,000	--
Silver	0.084	4.4	--	1,000	--

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

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**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-1 (IDOT ROW)</b>					
<b>Inorganics (mg/Kg)</b>					
Sodium	1,600	--	--	--	--
Thallium	1.4	2.6	--	160	--
Vanadium	26.0	550	--	1,400	--
Zinc	1,100	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	1.	--	--	--	2.0
Boron	0.27	--	--	--	2.0
Cadmium	<b>0.0079</b>	--	--	--	0.005
Cobalt	0.037	--	--	--	1.0
Iron	0.3	--	--	--	5.0
Lead	<b>0.025</b>	--	--	--	0.0075
Manganese	<b>8.</b>	--	--	--	0.15
Nickel	0.071	--	--	--	0.1
Zinc	0.87	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Lead	<b>0.21</b>	--	--	--	0.0075
Manganese	<b>1.2</b>	--	--	--	0.15
<b>ISGS #1314V3-2 (Mississippi River)</b>					
<b>VOCs (mg/Kg)</b>					
Acetone	0.032	25	--	100,000	--
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.014	--	--	--	--
Acenaphthene	0.039	570	--	120,000	--
Acenaphthylene	0.007	--	--	--	--
Anthracene	0.14	12,000	--	610,000	--
Benzo(a)anthracene	0.3	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.31</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	0.39	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.17	--	--	--	--
Benzo(k)fluoranthene	0.11	9.0	--	1,700	--
Chrysene	0.39	88	--	17,000	--
Fluoranthene	0.53	3,100	--	82,000	--
Fluorene	0.055	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.1	0.9	1.6	170	--
Naphthalene	0.02	1.8	--	1.8	--
Phenanthrene	0.44	--	--	--	--
Pyrene	0.82	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.44	5.0	--	82	--
Arsenic	6.7	11.3	13	61	--
Barium	64.0	1,500	--	14,000	--
Beryllium	0.59	22	--	410	--
Boron	25.0	40	--	41,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-2 (Mississippi River)</b>					
<b>Inorganics (mg/Kg)</b>					
Cadmium	0.39	5.2	--	200	--
Calcium	140,000	--	--	--	--
Chromium	<b>35.0</b>	21	--	690	--
Cobalt	8.6	20	--	12,000	--
Copper	27.0	2,900	--	8,200	--
Iron	<b>21,000</b>	15,000	15,900	--	--
Lead	31.0	107	--	700	--
Magnesium	12,000	325,000	--	730,000	--
Manganese	<b>830</b>	630	636	4,100	--
Mercury	0.12	0.89	--	0.1	--
Nickel	61.0	100	--	4,100	--
Potassium	1,300	--	--	--	--
Silver	0.078	4.4	--	1,000	--
Sodium	170	--	--	--	--
Thallium	1.2	2.6	--	160	--
Vanadium	25.0	550	--	1,400	--
Zinc	39.0	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.96	--	--	--	2.0
Boron	0.12	--	--	--	2.0
Cadmium	<b>0.0074</b>	--	--	--	0.005
Chromium	0.099	--	--	--	0.1
Cobalt	0.033	--	--	--	1.0
Iron	2.	--	--	--	5.0
Manganese	<b>9.6</b>	--	--	--	0.15
Nickel	<b>0.24</b>	--	--	--	0.1
Zinc	0.38	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Manganese	<b>0.45</b>	--	--	--	0.15
Nickel	0.027	--	--	--	0.1
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>					
<b>VOCs (mg/Kg)</b>					
2-Butanone (MEK)	0.014	--	--	--	--
Acetone	0.076	25	--	100,000	--
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.027	--	--	--	--
3 & 4 Methylphenol	0.17	--	--	--	--
Acenaphthene	0.088	570	--	120,000	--
Acenaphthylene	0.052	--	--	--	--
Anthracene	0.11	12,000	--	610,000	--
Benzo(a)anthracene	0.25	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.23</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	0.37	0.9	2.1	170	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>					
<b>SVOCs (mg/Kg)</b>					
Benzo(g,h,i)perylene	0.053	--	--	--	--
Benzo(k)fluoranthene	0.12	9.0	--	1,700	--
Chrysene	0.23	88	--	17,000	--
Fluoranthene	0.62	3,100	--	82,000	--
Fluorene	0.092	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.059	0.9	1.6	170	--
Naphthalene	0.042	1.8	--	1.8	--
Phenanthrene	0.26	--	--	--	--
Pyrene	0.58	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.87	5.0	--	82	--
Arsenic	8.7	11.3	13	61	--
Barium	120	1,500	--	14,000	--
Beryllium	0.96	22	--	410	--
Boron	<b>43.0</b>	40	--	41,000	--
Cadmium	0.82	5.2	--	200	--
Calcium	43,000	--	--	--	--
Chromium	16.0	21	--	690	--
Cobalt	5.3	20	--	12,000	--
Copper	39.0	2,900	--	8,200	--
Iron	<b>27,000</b>	15,000	15,900	--	--
Lead	<b>140</b>	107	--	700	--
Magnesium	8,300	325,000	--	730,000	--
Manganese	580	630	636	4,100	--
Mercury	0.44	0.89	--	0.1	--
Nickel	16.0	100	--	4,100	--
Potassium	1,000	--	--	--	--
Selenium	0.93	1.3	--	1,000	--
Silver	0.14	4.4	--	1,000	--
Sodium	430	--	--	--	--
Thallium	1.1	2.6	--	160	--
Vanadium	19.0	550	--	1,400	--
Zinc	730	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.84	--	--	--	2.0
Boron	0.43	--	--	--	2.0
Cobalt	0.013	--	--	--	1.0
Iron	1.4	--	--	--	5.0
Lead	<b>0.017</b>	--	--	--	0.0075
Manganese	<b>4.3</b>	--	--	--	0.15
Nickel	0.016	--	--	--	0.1
Zinc	0.86	--	--	--	5.0

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>					
<b>SPLP Metals (mg/L)</b>					
Lead	<b>0.052</b>	--	--	--	0.0075
Manganese	<b>0.16</b>	--	--	--	0.15
<b>ISGS #1314V3-05 (Industrial Building)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.025	--	--	--	--
Acenaphthene	0.061	570	--	120,000	--
Acenaphthylene	0.12	--	--	--	--
Anthracene	0.25	12,000	--	610,000	--
Benzo(a)anthracene	<b>0.96</b>	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.92</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>1.3</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.29	--	--	--	--
Benzo(k)fluoranthene	0.56	9.0	--	1,700	--
Carbazole	0.13	0.6	--	6,200	--
Chrysene	0.94	88	--	17,000	--
Dibenz(a,h)anthracene	<b>0.1</b>	0.09	0.42	17	--
Dibenzofuran	0.06	--	--	--	--
Fluoranthene	2.2	3,100	--	82,000	--
Fluorene	0.065	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.3	0.9	1.6	170	--
Naphthalene	0.046	1.8	--	1.8	--
Phenanthrene	1.2	--	--	--	--
Pyrene	2.	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.37	5.0	--	82	--
Arsenic	9.5	11.3	13	61	--
Barium	110	1,500	--	14,000	--
Beryllium	0.61	22	--	410	--
Boron	4.7	40	--	41,000	--
Cadmium	0.46	5.2	--	200	--
Calcium	57,000	--	--	--	--
Chromium	14.0	21	--	690	--
Cobalt	9.9	20	--	12,000	--
Copper	34.0	2,900	--	8,200	--
Iron	<b>19,000</b>	15,000	15,900	--	--
Lead	100	107	--	700	--
Magnesium	14,000	325,000	--	730,000	--
Manganese	<b>650</b>	630	636	4,100	--
Mercury	0.44	0.89	--	0.1	--
Nickel	20.0	100	--	4,100	--
Potassium	990	--	--	--	--
Sodium	140	--	--	--	--
Vanadium	26.0	550	--	1,400	--
Zinc	160	5,100	--	61,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017



**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-05 (Industrial Building)</b>					
<b>TCLP Metals (mg/L)</b>					
Barium	0.73	--	--	--	2.0
Boron	0.12	--	--	--	2.0
Cadmium	0.0022	--	--	--	0.005
Lead	<b>0.013</b>	--	--	--	0.0075
Manganese	<b>3.</b>	--	--	--	0.15
Nickel	0.019	--	--	--	0.1
Zinc	0.2	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Lead	<b>0.12</b>	--	--	--	0.0075
Manganese	<b>0.52</b>	--	--	--	0.15
<b>ISGS #1314V3-6 (Vacant Land)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.66	--	--	--	--
3 & 4 Methylphenol	0.47	--	--	--	--
4-Nitroaniline	0.27	--	--	--	--
Acenaphthene	0.75	570	--	120,000	--
Acenaphthylene	0.046	--	--	--	--
Anthracene	1.1	12,000	--	610,000	--
Benzo(a)anthracene	<b>3.2</b>	0.9	1.8	170	--
Benzo(a)pyrene	<b>3.5</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>4.4</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.94	--	--	--	--
Benzo(k)fluoranthene	1.8	9.0	--	1,700	--
Carbazole	<b>0.71</b>	0.6	--	6,200	--
Chrysene	2.9	88	--	17,000	--
Dibenz(a,h)anthracene	<b>0.36</b>	0.09	0.42	17	--
Dibenzofuran	0.42	--	--	--	--
Fluoranthene	7.	3,100	--	82,000	--
Fluorene	0.61	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	<b>1.</b>	0.9	1.6	170	--
Naphthalene	0.95	1.8	--	1.8	--
Phenanthrene	5.9	--	--	--	--
Pyrene	6.7	2,300	--	61,000	--
<b>PCBs (mg/Kg)</b>					
PCB-1254	0.039	1.0	--	1.0	--
PCB-1260	0.021	1.0	--	1.0	--
PCBs, total	0.06	1.0	--	1.0	--
<b>Inorganics (mg/Kg)</b>					
Antimony	2.8	5.0	--	82	--
Arsenic	<b>14.0</b>	11.3	13	61	--
Barium	380	1,500	--	14,000	--
Beryllium	0.8	22	--	410	--
Boron	18.0	40	--	41,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-6 (Vacant Land)</b>					
<b>Inorganics (mg/Kg)</b>					
Cadmium	<b>12.0</b>	5.2	--	200	--
Calcium	43,000	--	--	--	--
Chromium	<b>94.0</b>	21	--	690	--
Cobalt	10.0	20	--	12,000	--
Copper	86.0	2,900	--	8,200	--
Iron	<b>95,000</b>	15,000	15,900	--	--
Lead	<b>570</b>	107	--	700	--
Magnesium	17,000	325,000	--	730,000	--
Manganese	<b>850</b>	630	636	4,100	--
Mercury	0.43	0.89	--	0.1	--
Nickel	<b>310</b>	100	--	4,100	--
Potassium	600	--	--	--	--
Potassium	1,200	--	--	--	--
Selenium	<b>2.2</b>	1.3	--	1,000	--
Silver	0.81	4.4	--	1,000	--
Sodium	200	--	--	--	--
Thallium	<b>2.8</b>	2.6	--	160	--
Vanadium	45.0	550	--	1,400	--
Zinc	2,100	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.98	--	--	--	2.0
Boron	0.17	--	--	--	2.0
Cadmium	<b>0.1</b>	--	--	--	0.005
Chromium	0.014	--	--	--	0.1
Cobalt	0.086	--	--	--	1.0
Iron	<b>86.0</b>	--	--	--	5.0
Lead	<b>0.72</b>	--	--	--	0.0075
Manganese	<b>10.0</b>	--	--	--	0.15
Nickel	<b>1.2</b>	--	--	--	0.1
Zinc	12.0	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Cadmium	0.0029	--	--	--	0.005
Iron	11.0	--	--	--	5.0
Lead	<b>0.25</b>	--	--	--	0.0075
Manganese	<b>0.57</b>	--	--	--	0.15
Nickel	0.079	--	--	--	0.1
Zinc	0.52	--	--	--	5.0
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>					
<b>VOCs (mg/Kg)</b>					
2-Butanone (MEK)	0.0051	--	--	--	--
2-Hexanone	12.0	--	--	--	--
Acetone	0.048	25	--	100,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	4.9	--	--	--	--
4-Nitroaniline	3.	--	--	--	--
Acenaphthene	0.51	570	--	120,000	--
Acenaphthylene	0.34	--	--	--	--
Anthracene	0.63	12,000	--	610,000	--
Benzo(a)anthracene	<b>4.1</b>	0.9	1.8	170	--
Benzo(a)pyrene	<b>5.</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>7.5</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	3.6	--	--	--	--
Benzo(k)fluoranthene	2.7	9.0	--	1,700	--
Carbazole	0.48	0.6	--	6,200	--
Chrysene	5.3	88	--	17,000	--
Dibenz(a,h)anthracene	<b>0.91</b>	0.09	0.42	17	--
Diethyl phthalate	0.45	470	--	2,000	--
Fluoranthene	6.3	3,100	--	82,000	--
Fluorene	0.065	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	<b>3.5</b>	0.9	1.6	170	--
Naphthalene	1.3	1.8	--	1.8	--
Phenanthrene	2.7	--	--	--	--
Pyrene	5.8	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.49	5.0	--	82	--
Arsenic	<b>28.0</b>	11.3	13	61	--
Barium	360	1,500	--	14,000	--
Beryllium	1.3	22	--	410	--
Boron	<b>280</b>	40	--	41,000	--
Cadmium	2.4	5.2	--	200	--
Calcium	110,000	--	--	--	--
Chromium	<b>44.0</b>	21	--	690	--
Cobalt	14.0	20	--	12,000	--
Copper	77.0	2,900	--	8,200	--
Iron	<b>190,000</b>	15,000	15,900	--	--
Lead	<b>210</b>	107	--	700	--
Magnesium	6,300	325,000	--	730,000	--
Manganese	<b>1,300</b>	630	636	4,100	--
Mercury	0.12	0.89	--	0.1	--
Nickel	25.0	100	--	4,100	--
Potassium	860	--	--	--	--
Selenium	<b>4.9</b>	1.3	--	1,000	--
Silver	0.37	4.4	--	1,000	--
Sodium	300	--	--	--	--
Vanadium	36.0	550	--	1,400	--
Zinc	820	5,100	--	61,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>					
<b>TCLP Metals (mg/L)</b>					
Barium	1.7	--	--	--	2.0
Boron	0.65	--	--	--	2.0
Cadmium	<b>0.016</b>	--	--	--	0.005
Chromium	0.055	--	--	--	0.1
Cobalt	0.048	--	--	--	1.0
Iron	<b>9.4</b>	--	--	--	5.0
Lead	<b>0.13</b>	--	--	--	0.0075
Manganese	<b>10.0</b>	--	--	--	0.15
Nickel	0.063	--	--	--	0.1
Zinc	3.9	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Manganese	<b>0.82</b>	--	--	--	0.15
<b>ISGS #1314V3-8 (Commercial Building)</b>					
<b>VOCs (mg/Kg)</b>					
2-Butanone (MEK)	0.022	--	--	--	--
Acetone	0.11	25	--	100,000	--
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.016	--	--	--	--
Acenaphthene	0.013	570	--	120,000	--
Acenaphthylene	0.049	--	--	--	--
Anthracene	0.072	12,000	--	610,000	--
Benzo(a)anthracene	0.24	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.24</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	0.33	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.095	--	--	--	--
Benzo(k)fluoranthene	0.15	9.0	--	1,700	--
Chrysene	0.26	88	--	17,000	--
Dibenz(a,h)anthracene	0.027	0.09	0.42	17	--
Diethyl phthalate	0.29	470	--	2,000	--
Fluoranthene	0.63	3,100	--	82,000	--
Fluorene	0.03	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.094	0.9	1.6	170	--
Naphthalene	0.03	1.8	--	1.8	--
Phenanthrene	0.38	--	--	--	--
Pyrene	0.48	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.9	5.0	--	82	--
Arsenic	11.0	11.3	13	61	--
Barium	51.0	1,500	--	14,000	--
Beryllium	0.6	22	--	410	--
Boron	13.0	40	--	41,000	--
Cadmium	0.89	5.2	--	200	--
Calcium	37,000	--	--	--	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-8 (Commercial Building)</b>					
<b>Inorganics (mg/Kg)</b>					
Chromium	12.0	21	--	690	--
Cobalt	6.8	20	--	12,000	--
Copper	36.0	2,900	--	8,200	--
Iron	<b>17,000</b>	15,000	15,900	--	--
Lead	38.0	107	--	700	--
Magnesium	1,400	325,000	--	730,000	--
Manganese	230	630	636	4,100	--
Mercury	0.22	0.89	--	0.1	--
Nickel	20.0	100	--	4,100	--
Potassium	1,200	--	--	--	--
Selenium	0.33	1.3	--	1,000	--
Sodium	170	--	--	--	--
Thallium	0.66	2.6	--	160	--
Vanadium	55.0	550	--	1,400	--
Zinc	100	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Antimony	<b>0.0083</b>	--	--	--	0.006
Barium	0.47	--	--	--	2.0
Boron	0.3	--	--	--	2.0
Cadmium	<b>0.01</b>	--	--	--	0.005
Cobalt	0.025	--	--	--	1.0
Lead	<b>0.016</b>	--	--	--	0.0075
Manganese	<b>2.4</b>	--	--	--	0.15
Nickel	0.055	--	--	--	0.1
Zinc	0.62	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Cadmium	0.0034	--	--	--	0.005
Lead	<b>0.038</b>	--	--	--	0.0075
Manganese	0.13	--	--	--	0.15
<b>ISGS #1314V3-11 (Vacant Land)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.02	--	--	--	--
Acenaphthene	0.031	570	--	120,000	--
Acenaphthylene	0.012	--	--	--	--
Anthracene	0.092	12,000	--	610,000	--
Benzo(a)anthracene	0.4	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.51</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	0.67	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.15	--	--	--	--
Benzo(k)fluoranthene	0.78	9.0	--	1,700	--
Chrysene	0.38	88	--	17,000	--
Dibenz(a,h)anthracene	0.054	0.09	0.42	17	--
Fluoranthene	0.79	3,100	--	82,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-11 (Vacant Land)</b>					
<b>SVOCs (mg/Kg)</b>					
Fluorene	0.032	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.16	0.9	1.6	170	--
Naphthalene	0.014	1.8	--	1.8	--
Phenanthrene	0.4	--	--	--	--
Pyrene	0.76	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.47	5.0	--	82	--
Arsenic	4.8	11.3	13	61	--
Barium	87.0	1,500	--	14,000	--
Beryllium	0.56	22	--	410	--
Boron	5.6	40	--	41,000	--
Cadmium	0.44	5.2	--	200	--
Calcium	83,000	--	--	--	--
Chromium	17.0	21	--	690	--
Cobalt	5.2	20	--	12,000	--
Copper	20.0	2,900	--	8,200	--
Iron	15,000	15,000	15,900	--	--
Lead	<b>130</b>	107	--	700	--
Magnesium	4,500	325,000	--	730,000	--
Manganese	580	630	636	4,100	--
Mercury	0.13	0.89	--	0.1	--
Nickel	14.0	100	--	4,100	--
Potassium	650	--	--	--	--
Selenium	0.3	1.3	--	1,000	--
Sodium	290	--	--	--	--
Thallium	0.93	2.6	--	160	--
Vanadium	21.0	550	--	1,400	--
Zinc	120	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.86	--	--	--	2.0
Boron	0.074	--	--	--	2.0
Cadmium	0.0037	--	--	--	0.005
Manganese	<b>0.97</b>	--	--	--	0.15
Zinc	0.25	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Manganese	<b>0.38</b>	--	--	--	0.15
<b>ISGS #1314V3-17 (Parking Lot)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.5	--	--	--	--
Acenaphthene	0.06	570	--	120,000	--
Acenaphthylene	0.074	--	--	--	--
Anthracene	0.3	12,000	--	610,000	--
Benzo(a)anthracene	<b>1.1</b>	0.9	1.8	170	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-17 (Parking Lot)</b>					
<b>SVOCs (mg/Kg)</b>					
Benzo(a)pyrene	<b>1.1</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>1.7</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.3	--	--	--	--
Benzo(k)fluoranthene	0.96	9.0	--	1,700	--
Carbazole	0.22	0.6	--	6,200	--
Chrysene	1.5	88	--	17,000	--
Dibenz(a,h)anthracene	0.087	0.09	0.42	17	--
Dibenzofuran	0.16	--	--	--	--
Fluoranthene	2.7	3,100	--	82,000	--
Fluorene	0.074	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.31	0.9	1.6	170	--
Naphthalene	0.25	1.8	--	1.8	--
Phenanthrene	1.9	--	--	--	--
Pyrene	2.6	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Arsenic	<b>15.0</b>	11.3	13	61	--
Barium	210	1,500	--	14,000	--
Beryllium	1.1	22	--	410	--
Boron	26.0	40	--	41,000	--
Cadmium	1.5	5.2	--	200	--
Calcium	19,000	--	--	--	--
Chromium	16.0	21	--	690	--
Cobalt	9.3	20	--	12,000	--
Copper	120	2,900	--	8,200	--
Iron	<b>32,000</b>	15,000	15,900	--	--
Lead	<b>360</b>	107	--	700	--
Magnesium	9,600	325,000	--	730,000	--
Manganese	460	630	636	4,100	--
Mercury	0.42	0.89	--	0.1	--
Nickel	21.0	100	--	4,100	--
Potassium	890	--	--	--	--
Selenium	<b>3.</b>	1.3	--	1,000	--
Sodium	1,100	--	--	--	--
Vanadium	27.0	550	--	1,400	--
Zinc	460	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.7	--	--	--	2.0
Boron	0.3	--	--	--	2.0
Cadmium	0.0026	--	--	--	0.005
Cobalt	0.019	--	--	--	1.0
Iron	1.2	--	--	--	5.0
Lead	<b>0.072</b>	--	--	--	0.0075
Manganese	<b>5.4</b>	--	--	--	0.15
Nickel	0.036	--	--	--	0.1

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-17 (Parking Lot)</b>					
<b>TCLP Metals (mg/L)</b>					
Zinc	1.3	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Lead	<b>0.29</b>	--	--	--	0.0075
Manganese	<b>1.2</b>	--	--	--	0.15
<b>ISGS #1314V3-18 (Vacant Land)</b>					
<b>VOCs (mg/Kg)</b>					
2-Butanone (MEK)	0.011	--	--	--	--
Acetone	0.051	25	--	100,000	--
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.23	--	--	--	--
3 & 4 Methylphenol	0.29	--	--	--	--
Acenaphthene	0.041	570	--	120,000	--
Acenaphthylene	0.19	--	--	--	--
Anthracene	0.46	12,000	--	610,000	--
Benzo(a)anthracene	<b>0.91</b>	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.72</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>0.94</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.25	--	--	--	--
Benzo(k)fluoranthene	0.43	9.0	--	1,700	--
Carbazole	0.19	0.6	--	6,200	--
Chrysene	0.82	88	--	17,000	--
Dibenz(a,h)anthracene	0.077	0.09	0.42	17	--
Dibenzofuran	0.17	--	--	--	--
Fluoranthene	1.9	3,100	--	82,000	--
Fluorene	0.099	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.24	0.9	1.6	170	--
Naphthalene	0.17	1.8	--	1.8	--
Phenanthrene	1.6	--	--	--	--
Pyrene	1.6	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.62	5.0	--	82	--
Arsenic	<b>220</b>	11.3	13	61	--
Barium	78.0	1,500	--	14,000	--
Beryllium	8.9	22	--	410	--
Boron	<b>140</b>	40	--	41,000	--
Cadmium	<b>20.0</b>	5.2	--	200	--
Calcium	110,000	--	--	--	--
Chromium	15.0	21	--	690	--
Cobalt	6.6	20	--	12,000	--
Copper	120	2,900	--	8,200	--
Iron	<b>20,000</b>	15,000	15,900	--	--
Lead	39.0	107	--	700	--
Magnesium	30,000	325,000	--	730,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017



**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-18 (Vacant Land)</b>					
<b>Inorganics (mg/Kg)</b>					
Manganese	390	630	636	4,100	--
Mercury	0.19	0.89	--	0.1	--
Nickel	15.0	100	--	4,100	--
Potassium	1,000	--	--	--	--
Selenium	<b>33.0</b>	1.3	--	1,000	--
Sodium	710	--	--	--	--
Thallium	<b>300</b>	2.6	--	160	--
Vanadium	26.0	550	--	1,400	--
Zinc	120	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	1.3	--	--	--	2.0
Boron	0.12	--	--	--	2.0
Cadmium	<b>0.0079</b>	--	--	--	0.005
Cobalt	0.048	--	--	--	1.0
Iron	0.84	--	--	--	5.0
Lead	<b>0.015</b>	--	--	--	0.0075
Manganese	<b>14.0</b>	--	--	--	0.15
Nickel	0.047	--	--	--	0.1
Zinc	0.35	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Lead	<b>0.092</b>	--	--	--	0.0075
Manganese	<b>0.83</b>	--	--	--	0.15
<b>ISGS #1314V3-21 (BNSF Railroad)</b>					
<b>VOCs (mg/Kg)</b>					
2-Butanone (MEK)	0.0088	--	--	--	--
Acetone	0.05	25	--	100,000	--
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.19	--	--	--	--
Acenaphthene	0.026	570	--	120,000	--
Acenaphthylene	0.13	--	--	--	--
Anthracene	0.15	12,000	--	610,000	--
Benzo(a)anthracene	0.43	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.5</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	0.8	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.13	--	--	--	--
Benzo(k)fluoranthene	0.27	9.0	--	1,700	--
Bis(2-ethylhexyl) phthalate	0.07	46	--	4,100	--
Chrysene	0.45	88	--	17,000	--
Dibenz(a,h)anthracene	0.057	0.09	0.42	17	--
Dibenzofuran	0.078	--	--	--	--
Fluoranthene	0.77	3,100	--	82,000	--
Fluorene	0.025	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.14	0.9	1.6	170	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-21 (BNSF Railroad)</b>					
<b>SVOCs (mg/Kg)</b>					
Naphthalene	0.11	1.8	--	1.8	--
Phenanthrene	0.49	--	--	--	--
Pyrene	0.75	2,300	--	61,000	--
<b>PCBs (mg/Kg)</b>					
PCB-1260	0.012	1.0	--	1.0	--
PCBs, total	0.012	1.0	--	1.0	--
<b>Inorganics (mg/Kg)</b>					
Antimony	4.2	5.0	--	82	--
Arsenic	9.	11.3	13	61	--
Barium	210	1,500	--	14,000	--
Beryllium	1.8	22	--	410	--
Boron	<b>41.0</b>	40	--	41,000	--
Cadmium	1.4	5.2	--	200	--
Calcium	10,000	--	--	--	--
Chromium	15.0	21	--	690	--
Cobalt	8.4	20	--	12,000	--
Copper	70.0	2,900	--	8,200	--
Iron	<b>48,000</b>	15,000	15,900	--	--
Lead	<b>150</b>	107	--	700	--
Magnesium	1,800	325,000	--	730,000	--
Manganese	500	630	636	4,100	--
Mercury	0.075	0.89	--	0.1	--
Nickel	24.0	100	--	4,100	--
Potassium	1,000	--	--	--	--
Selenium	<b>2.3</b>	1.3	--	1,000	--
Sodium	900	--	--	--	--
Thallium	<b>3.</b>	2.6	--	160	--
Vanadium	27.0	550	--	1,400	--
Zinc	330	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Antimony	<b>0.0098</b>	--	--	--	0.006
Barium	0.59	--	--	--	2.0
Cadmium	0.003	--	--	--	0.005
Cobalt	0.017	--	--	--	1.0
Iron	0.33	--	--	--	5.0
Lead	<b>0.079</b>	--	--	--	0.0075
Manganese	<b>3.1</b>	--	--	--	0.15
Nickel	0.017	--	--	--	0.1
Zinc	0.43	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Antimony	<b>0.0063</b>	--	--	--	0.006
Lead	<b>0.097</b>	--	--	--	0.0075
Manganese	<b>0.32</b>	--	--	--	0.15

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-24 (John Deere)</b>					
<b>VOCs (mg/Kg)</b>					
Tetrachloroethene	0.0096	0.06	--	28	--
Xylenes, Total	0.0025	5.6	--	5.6	--
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.042	--	--	--	--
Acenaphthene	0.21	570	--	120,000	--
Acenaphthylene	0.082	--	--	--	--
Anthracene	0.72	12,000	--	610,000	--
Benzo(a)anthracene	<b>4.3</b>	0.9	1.8	170	--
Benzo(a)pyrene	<b>5.</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>7.2</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	1.3	--	--	--	--
Benzo(k)fluoranthene	2.3	9.0	--	1,700	--
Bis(2-ethylhexyl) phthalate	0.091	46	--	4,100	--
Carbazole	0.26	0.6	--	6,200	--
Chrysene	3.9	88	--	17,000	--
Dibenz(a,h)anthracene	<b>0.42</b>	0.09	0.42	17	--
Dibenzofuran	0.058	--	--	--	--
Fluoranthene	8.5	3,100	--	82,000	--
Fluorene	0.18	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	<b>1.5</b>	0.9	1.6	170	--
Naphthalene	0.058	1.8	--	1.8	--
Phenanthrene	2.3	--	--	--	--
Pyrene	9.2	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	<b>18.0</b>	5.0	--	82	--
Arsenic	<b>32.0</b>	11.3	13	61	--
Barium	270	1,500	--	14,000	--
Beryllium	2.9	22	--	410	--
Boron	<b>110</b>	40	--	41,000	--
Cadmium	1.5	5.2	--	200	--
Calcium	86,000	--	--	--	--
Chromium	<b>26.0</b>	21	--	690	--
Cobalt	19.0	20	--	12,000	--
Copper	1,000	2,900	--	8,200	--
Iron	<b>150,000</b>	15,000	15,900	--	--
Lead	<b>690</b>	107	--	700	--
Magnesium	9,400	325,000	--	730,000	--
Manganese	<b>4,100</b>	630	636	4,100	--
Mercury	0.39	0.89	--	0.1	--
Nickel	40.0	100	--	4,100	--
Potassium	2,000	--	--	--	--
Selenium	<b>2.6</b>	1.3	--	1,000	--
Silver	0.65	4.4	--	1,000	--
Sodium	2,200	--	--	--	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-24 (John Deere)</b>					
<b>Inorganics (mg/Kg)</b>					
Thallium	5.1	2.6	--	160	--
Vanadium	74.0	550	--	1,400	--
Zinc	700	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Antimony	0.21	--	--	--	0.006
Barium	0.96	--	--	--	2.0
Boron	0.13	--	--	--	2.0
Cadmium	0.0048	--	--	--	0.005
Cobalt	0.03	--	--	--	1.0
Lead	1.8	--	--	--	0.0075
Manganese	3.9	--	--	--	0.15
Nickel	0.034	--	--	--	0.1
Zinc	0.54	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Antimony	0.056	--	--	--	0.006
Lead	0.41	--	--	--	0.0075
Manganese	1.5	--	--	--	0.15
<b>ISGS #1314V3-25 (Sivyer Steel Corp.)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.2	--	--	--	--
Acenaphthene	0.21	570	--	120,000	--
Acenaphthylene	0.45	--	--	--	--
Anthracene	0.63	12,000	--	610,000	--
Benzo(a)anthracene	2.2	0.9	1.8	170	--
Benzo(a)pyrene	3.	0.09	2.1	17	--
Benzo(b)fluoranthene	4.8	0.9	2.1	170	--
Benzo(g,h,i)perylene	1.4	--	--	--	--
Benzo(k)fluoranthene	1.8	9.0	--	1,700	--
Carbazole	0.42	0.6	--	6,200	--
Chrysene	2.8	88	--	17,000	--
Dibenz(a,h)anthracene	0.47	0.09	0.42	17	--
Dibenzofuran	0.25	--	--	--	--
Fluoranthene	5.6	3,100	--	82,000	--
Fluorene	0.28	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	1.6	0.9	1.6	170	--
Naphthalene	0.22	1.8	--	1.8	--
Phenanthrene	1.1	--	--	--	--
Pyrene	4.9	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	18.0	5.0	--	82	--
Arsenic	19.0	11.3	13	61	--
Barium	190	1,500	--	14,000	--
Beryllium	1.9	22	--	410	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-25 (Sivyer Steel Corp.)</b>					
<b>Inorganics (mg/Kg)</b>					
Boron	61.0	40	--	41,000	--
Cadmium	3.7	5.2	--	200	--
Calcium	67,000	--	--	--	--
Chromium	26.0	21	--	690	--
Cobalt	12.0	20	--	12,000	--
Copper	100	2,900	--	8,200	--
Iron	61,000	15,000	15,900	--	--
Lead	1,900	107	--	700	--
Magnesium	9,300	325,000	--	730,000	--
Manganese	870	630	636	4,100	--
Mercury	0.25	0.89	--	0.1	--
Nickel	30.0	100	--	4,100	--
Potassium	1,600	--	--	--	--
Selenium	4.3	1.3	--	1,000	--
Silver	0.35	4.4	--	1,000	--
Sodium	460	--	--	--	--
Thallium	1.5	2.6	--	160	--
Vanadium	34.0	550	--	1,400	--
Zinc	980	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Antimony	0.066	--	--	--	0.006
Barium	1.	--	--	--	2.0
Cadmium	0.0068	--	--	--	0.005
Cobalt	0.026	--	--	--	1.0
Iron	0.43	--	--	--	5.0
Lead	0.96	--	--	--	0.0075
Manganese	4.	--	--	--	0.15
Nickel	0.024	--	--	--	0.1
Selenium	0.021	--	--	--	0.05
Zinc	1.9	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Antimony	0.018	--	--	--	0.006
Lead	0.34	--	--	--	0.0075
Manganese	0.55	--	--	--	0.15
<b>ISGS #1314V3-26 (Commercial Building)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.013	--	--	--	--
Anthracene	0.007	12,000	--	610,000	--
Benzo(a)anthracene	0.04	0.9	1.8	170	--
Benzo(a)pyrene	0.05	0.09	2.1	17	--
Benzo(b)fluoranthene	0.091	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.02	--	--	--	--
Benzo(k)fluoranthene	0.029	9.0	--	1,700	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-26 (Commercial Building)</b>					
<b>SVOCs (mg/Kg)</b>					
Chrysene	0.045	88	--	17,000	--
Dibenz(a,h)anthracene	0.012	0.09	0.42	17	--
Fluoranthene	0.071	3,100	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.027	0.9	1.6	170	--
Naphthalene	0.0078	1.8	--	1.8	--
Phenanthrene	0.043	--	--	--	--
Pyrene	0.069	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.43	5.0	--	82	--
Arsenic	2.7	11.3	13	61	--
Barium	110	1,500	--	14,000	--
Beryllium	0.56	22	--	410	--
Boron	7.2	40	--	41,000	--
Cadmium	0.31	5.2	--	200	--
Calcium	7,700	--	--	--	--
Chromium	13.0	21	--	690	--
Cobalt	5.3	20	--	12,000	--
Copper	19.0	2,900	--	8,200	--
Iron	14,000	15,000	15,900	--	--
Lead	21.0	107	--	700	--
Magnesium	3,200	325,000	--	730,000	--
Manganese	360	630	636	4,100	--
Mercury	0.058	0.89	--	0.1	--
Nickel	12.0	100	--	4,100	--
Potassium	1,100	--	--	--	--
Selenium	0.33	1.3	--	1,000	--
Sodium	230	--	--	--	--
Thallium	0.8	2.6	--	160	--
Vanadium	17.0	550	--	1,400	--
Zinc	58.0	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.51	--	--	--	2.0
Boron	0.099	--	--	--	2.0
Cadmium	0.0023	--	--	--	0.005
Iron	0.26	--	--	--	5.0
Manganese	<b>1.1</b>	--	--	--	0.15
Selenium	0.02	--	--	--	0.05
<b>SPLP Metals (mg/L)</b>					
Manganese	0.05	--	--	--	0.15
<b>ISGS #1314V3-32 (Commercial Buildings)</b>					
<b>SVOCs (mg/Kg)</b>					
Anthracene	0.046	12,000	--	610,000	--
Benzo(a)anthracene	0.2	0.9	1.8	170	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-32 (Commercial Buildings)</b>					
<b>SVOCs (mg/Kg)</b>					
Benzo(a)pyrene	0.2	0.09	2.1	17	--
Benzo(b)fluoranthene	0.3	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.12	--	--	--	--
Benzo(k)fluoranthene	0.11	9.0	--	1,700	--
Bis(2-ethylhexyl) phthalate	0.49	46	--	4,100	--
Chrysene	0.25	88	--	17,000	--
Dibenz(a,h)anthracene	0.038	0.09	0.42	17	--
Fluoranthene	0.51	3,100	--	82,000	--
Fluorene	0.01	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.11	0.9	1.6	170	--
Phenanthrene	0.23	--	--	--	--
Pyrene	0.4	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.51	5.0	--	82	--
Arsenic	6.4	11.3	13	61	--
Barium	99.0	1,500	--	14,000	--
Beryllium	0.71	22	--	410	--
Boron	6.2	40	--	41,000	--
Cadmium	0.24	5.2	--	200	--
Calcium	42,000	--	--	--	--
Chromium	53.0	21	--	690	--
Cobalt	7.8	20	--	12,000	--
Copper	19.0	2,900	--	8,200	--
Iron	19,000	15,000	15,900	--	--
Lead	190	107	--	700	--
Magnesium	14,000	325,000	--	730,000	--
Manganese	470	630	636	4,100	--
Mercury	2.	0.89	--	0.1	--
Nickel	20.0	100	--	4,100	--
Potassium	910	--	--	--	--
Potassium	1,200	--	--	--	--
Selenium	0.63	1.3	--	1,000	--
Sodium	900	--	--	--	--
Thallium	1.5	2.6	--	160	--
Vanadium	32.0	550	--	1,400	--
Zinc	76.0	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.82	--	--	--	2.0
Boron	0.081	--	--	--	2.0
Cadmium	0.0025	--	--	--	0.005
Iron	0.39	--	--	--	5.0
Manganese	1.4	--	--	--	0.15
Nickel	0.013	--	--	--	0.1
Zinc	0.065	--	--	--	5.0

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-32 (Commercial Buildings)</b>					
<b>SPLP Metals (mg/L)</b>					
Manganese	0.67	--	--	--	0.15
<b>ISGS #1314V3-33 (Parking Lot)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.5	--	--	--	--
Acenaphthene	2.5	570	--	120,000	--
Acenaphthylene	0.03	--	--	--	--
Anthracene	6.4	12,000	--	610,000	--
Benzo(a)anthracene	14.0	0.9	1.8	170	--
Benzo(a)pyrene	13.0	0.09	2.1	17	--
Benzo(b)fluoranthene	18.0	0.9	2.1	170	--
Benzo(g,h,i)perylene	6.5	--	--	--	--
Benzo(k)fluoranthene	6.8	9.0	--	1,700	--
Bis(2-ethylhexyl) phthalate	0.13	46	--	4,100	--
Carbazole	3.8	0.6	--	6,200	--
Chrysene	15.0	88	--	17,000	--
Dibenz(a,h)anthracene	2.1	0.09	0.42	17	--
Dibenzofuran	1.7	--	--	--	--
Fluoranthene	34.0	3,100	--	82,000	--
Fluorene	2.9	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	6.8	0.9	1.6	170	--
Naphthalene	1.	1.8	--	1.8	--
Phenanthrene	26.0	--	--	--	--
Pyrene	28.0	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.41	5.0	--	82	--
Arsenic	6.8	11.3	13	61	--
Barium	140	1,500	--	14,000	--
Beryllium	0.54	22	--	410	--
Boron	2.5	40	--	41,000	--
Cadmium	2.9	5.2	--	200	--
Calcium	29,000	--	--	--	--
Chromium	14.0	21	--	690	--
Cobalt	9.8	20	--	12,000	--
Copper	18.0	2,900	--	8,200	--
Iron	14,000	15,000	15,900	--	--
Lead	890	107	--	700	--
Magnesium	12,000	325,000	--	730,000	--
Manganese	590	630	636	4,100	--
Mercury	0.11	0.89	--	0.1	--
Nickel	22.0	100	--	4,100	--
Potassium	710	--	--	--	--
Selenium	0.49	1.3	--	1,000	--
Sodium	630	--	--	--	--
Vanadium	22.0	550	--	1,400	--

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

05:90080046\_CHI2155\_T42\_3/7/2017



**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-33 (Parking Lot)</b>					
<b>Inorganics (mg/Kg)</b>					
Zinc	420	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.87	--	--	--	2.0
Boron	0.084	--	--	--	2.0
Cadmium	<b>0.038</b>	--	--	--	0.005
Cobalt	0.019	--	--	--	1.0
Lead	<b>1.7</b>	--	--	--	0.0075
Manganese	<b>4.1</b>	--	--	--	0.15
Nickel	0.046	--	--	--	0.1
Zinc	3.1	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Cadmium	0.0039	--	--	--	0.005
Lead	<b>3.7</b>	--	--	--	0.0075
Manganese	<b>0.64</b>	--	--	--	0.15
<b>ISGS #1314V3-56 (Commercial Buildings)</b>					
<b>SVOCs (mg/Kg)</b>					
Anthracene	0.013	12,000	--	610,000	--
Benzo(a)anthracene	0.048	0.9	1.8	170	--
Benzo(a)pyrene	0.052	0.09	2.1	17	--
Benzo(b)fluoranthene	0.071	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.02	--	--	--	--
Benzo(k)fluoranthene	0.027	9.0	--	1,700	--
Chrysene	0.047	88	--	17,000	--
Fluoranthene	0.11	3,100	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.026	0.9	1.6	170	--
Phenanthrene	0.056	--	--	--	--
Pyrene	0.082	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.28	5.0	--	82	--
Arsenic	5.1	11.3	13	61	--
Barium	80.0	1,500	--	14,000	--
Beryllium	0.49	22	--	410	--
Boron	2.7	40	--	41,000	--
Cadmium	0.17	5.2	--	200	--
Calcium	5,200	--	--	--	--
Chromium	13.0	21	--	690	--
Cobalt	6.1	20	--	12,000	--
Copper	10.0	2,900	--	8,200	--
Iron	14,000	15,000	15,900	--	--
Lead	9.8	107	--	700	--
Magnesium	2,700	325,000	--	730,000	--
Manganese	620	630	636	4,100	--
Mercury	0.024	0.89	--	0.1	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-56 (Commercial Buildings)</b>					
<b>Inorganics (mg/Kg)</b>					
Nickel	16.0	100	--	4,100	--
Potassium	850	--	--	--	--
Selenium	0.26	1.3	--	1,000	--
Sodium	1,300	--	--	--	--
Thallium	1.1	2.6	--	160	--
Vanadium	21.0	550	--	1,400	--
Zinc	28.0	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.58	--	--	--	2.0
Boron	0.092	--	--	--	2.0
Iron	0.34	--	--	--	5.0
Manganese	<b>1.7</b>	--	--	--	0.15
<b>SPLP Metals (mg/L)</b>					
Manganese	<b>0.81</b>	--	--	--	0.15
<b>ISGS #1314V3-57 (Old Chamber Building)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.0098	--	--	--	--
Acenaphthene	0.016	570	--	120,000	--
Acenaphthylene	0.006	--	--	--	--
Anthracene	0.036	12,000	--	610,000	--
Benzo(a)anthracene	0.18	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.22</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	0.33	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.078	--	--	--	--
Benzo(k)fluoranthene	0.12	9.0	--	1,700	--
Chrysene	0.21	88	--	17,000	--
Dibenz(a,h)anthracene	0.034	0.09	0.42	17	--
Fluoranthene	0.43	3,100	--	82,000	--
Fluorene	0.014	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.094	0.9	1.6	170	--
Naphthalene	0.023	1.8	--	1.8	--
Phenanthrene	0.26	--	--	--	--
Pyrene	0.36	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.45	5.0	--	82	--
Arsenic	5.	11.3	13	61	--
Barium	91.0	1,500	--	14,000	--
Beryllium	0.6	22	--	410	--
Boron	5.1	40	--	41,000	--
Cadmium	0.5	5.2	--	200	--
Calcium	14,000	--	--	--	--
Chromium	14.0	21	--	690	--
Cobalt	5.5	20	--	12,000	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-57 (Old Chamber Building)</b>					
<b>Inorganics (mg/Kg)</b>					
Copper	17.0	2,900	--	8,200	--
Iron	14,000	15,000	15,900	--	--
Lead	66.0	107	--	700	--
Magnesium	7,800	325,000	--	730,000	--
Manganese	370	630	636	4,100	--
Mercury	0.19	0.89	--	0.1	--
Nickel	13.0	100	--	4,100	--
Potassium	910	--	--	--	--
Selenium	0.38	1.3	--	1,000	--
Sodium	780	--	--	--	--
Thallium	0.78	2.6	--	160	--
Vanadium	20.0	550	--	1,400	--
Zinc	85.0	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.75	--	--	--	2.0
Boron	0.11	--	--	--	2.0
Cadmium	0.0022	--	--	--	0.005
Lead	<b>0.011</b>	--	--	--	0.0075
Manganese	<b>1.9</b>	--	--	--	0.15
Nickel	0.03	--	--	--	0.1
<b>SPLP Metals (mg/L)</b>					
Lead	<b>0.15</b>	--	--	--	0.0075
Manganese	<b>0.7</b>	--	--	--	0.15
<b>ISGS #1314V3-59 (Residence)</b>					
<b>SVOCs (mg/Kg)</b>					
Benzo(a)anthracene	0.0075	0.9	1.8	170	--
Benzo(a)pyrene	0.009	0.09	2.1	17	--
Benzo(b)fluoranthene	0.016	0.9	2.1	170	--
Fluoranthene	0.014	3,100	--	82,000	--
Phenanthrene	0.0056	--	--	--	--
Pyrene	0.011	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.28	5.0	--	82	--
Arsenic	6.5	11.3	13	61	--
Barium	67.0	1,500	--	14,000	--
Beryllium	0.49	22	--	410	--
Boron	3.1	40	--	41,000	--
Cadmium	0.29	5.2	--	200	--
Calcium	23,000	--	--	--	--
Chromium	14.0	21	--	690	--
Cobalt	6.8	20	--	12,000	--
Copper	11.0	2,900	--	8,200	--
Iron	14,000	15,000	15,900	--	--

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

05:90080046\_CHI2155\_T42\_3/7/2017

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-59 (Residence)</b>					
<b>Inorganics (mg/Kg)</b>					
Lead	14.0	107	--	700	--
Magnesium	15,000	325,000	--	730,000	--
Manganese	460	630	636	4,100	--
Mercury	0.013	0.89	--	0.1	--
Nickel	15.0	100	--	4,100	--
Potassium	870	--	--	--	--
Selenium	<b>1.6</b>	1.3	--	1,000	--
Sodium	180	--	--	--	--
Thallium	1.	2.6	--	160	--
Vanadium	27.0	550	--	1,400	--
Zinc	36.0	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.57	--	--	--	2.0
Boron	0.075	--	--	--	2.0
Cobalt	0.035	--	--	--	1.0
Manganese	<b>2.4</b>	--	--	--	0.15
Nickel	0.034	--	--	--	0.1
Selenium	0.025	--	--	--	0.05
<b>SPLP Metals (mg/L)</b>					
Manganese	<b>0.23</b>	--	--	--	0.15
<b>ISGS #1314V3-60 (Vacant Lot)</b>					
<b>SVOCs (mg/Kg)</b>					
2-Methylnaphthalene	0.094	--	--	--	--
Acenaphthene	0.25	570	--	120,000	--
Acenaphthylene	0.0049	--	--	--	--
Anthracene	0.65	12,000	--	610,000	--
Benzo(a)anthracene	<b>1.2</b>	0.9	1.8	170	--
Benzo(a)pyrene	<b>0.97</b>	0.09	2.1	17	--
Benzo(b)fluoranthene	<b>1.5</b>	0.9	2.1	170	--
Benzo(g,h,i)perylene	0.32	--	--	--	--
Benzo(k)fluoranthene	0.5	9.0	--	1,700	--
Carbazole	0.43	0.6	--	6,200	--
Chrysene	1.1	88	--	17,000	--
Dibenz(a,h)anthracene	<b>0.12</b>	0.09	0.42	17	--
Dibenzofuran	0.19	--	--	--	--
Fluoranthene	3.1	3,100	--	82,000	--
Fluorene	0.26	560	--	82,000	--
Indeno(1,2,3-cd)pyrene	0.34	0.9	1.6	170	--
Phenanthrene	2.5	--	--	--	--
Pyrene	2.2	2,300	--	61,000	--
<b>Inorganics (mg/Kg)</b>					
Antimony	0.62	5.0	--	82	--
Arsenic	7.	11.3	13	61	--

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

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**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
<b>ISGS #1314V3-60 (Vacant Lot)</b>					
<b>Inorganics (mg/Kg)</b>					
Barium	120	1,500	--	14,000	--
Beryllium	0.56	22	--	410	--
Boron	9.1	40	--	41,000	--
Cadmium	0.44	5.2	--	200	--
Calcium	220,000	--	--	--	--
Chromium	16.0	21	--	690	--
Cobalt	11.0	20	--	12,000	--
Copper	14.0	2,900	--	8,200	--
Iron	<b>18,000</b>	15,000	15,900	--	--
Lead	72.0	107	--	700	--
Magnesium	7,400	325,000	--	730,000	--
Manganese	<b>820</b>	630	636	4,100	--
Mercury	0.076	0.89	--	0.1	--
Nickel	31.0	100	--	4,100	--
Potassium	900	--	--	--	--
Selenium	0.63	1.3	--	1,000	--
Sodium	290	--	--	--	--
Vanadium	25.0	550	--	1,400	--
Zinc	110	5,100	--	61,000	--
<b>TCLP Metals (mg/L)</b>					
Barium	0.74	--	--	--	2.0
Boron	0.15	--	--	--	2.0
Chromium	0.015	--	--	--	0.1
Iron	0.32	--	--	--	5.0
Lead	<b>0.021</b>	--	--	--	0.0075
Manganese	<b>1.8</b>	--	--	--	0.15
Zinc	0.092	--	--	--	5.0
<b>SPLP Metals (mg/L)</b>					
Lead	<b>0.11</b>	--	--	--	0.0075
Manganese	<b>0.49</b>	--	--	--	0.15

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

**Key:**

ISGS = Illinois State Geological Survey  
 MAC = Maximum Allowable Concentration of Chemical Constituents in Uncontaminated Soil  
 mg/L = Milligrams per liter.  
 mg/kg = Milligrams per kilogram.  
 MSA = Metropolitan Statistical Area.

-- = Not applicable or not specified.  
 SPLP = Synthetic precipitation leaching procedure.  
 SVOCs = Semivolatile organic compounds.  
 TACO = Tiered Approach to Corrective Action Objective  
 TCLP = Toxicity characteristic leaching procedure.  
 VOCs = Volatile organic compounds.

**Table 4-3 Detected Water Analytes and Comparison to TACO Tier 1 Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Concentration Detected	TACO Tier 1 Remediation Objectives for Groundwater	
		Class I	Class II
<b>ISGS #1314V3-1 (IDOT ROW)</b>			
<b>SVOCs (mg/L)</b>			
Diethyl phthalate	0.00032	5.6	5.6
<b>Inorganics (mg/L)</b>			
Arsenic	0.0015	0.05	0.2
Barium	0.31	2.0	2.0
Boron	1.5	2.0	2.0
Calcium	230	NS	NS
Chromium	0.00098	0.1	1.0
Cobalt	0.0013	1.0	1.0
Copper	0.0018	0.65	0.65
Iron	<b>29.0</b>	5.0	5.0
Lead	0.004	0.0075	0.1
Magnesium	37.0	NS	NS
Manganese	<b>3.</b>	0.15	10
Nickel	0.0075	0.1	2.0
Potassium	21.0	NS	NS
Sodium	230	NS	NS
Zinc	0.027	5.0	10
<b>ISGS #1314V3-2 (Mississippi River)</b>			
<b>VOCs (mg/L)</b>			
Xylenes, Total	0.00067	10	10
<b>SVOCs (mg/L)</b>			
Diethyl phthalate	0.00048	5.6	5.6
Phenanthrene	0.00032	NS	NS
<b>Inorganics (mg/L)</b>			
Arsenic	0.0074	0.05	0.2
Barium	0.18	2.0	2.0
Beryllium	0.00072	0.004	0.5
Boron	0.49	2.0	2.0
Cadmium	0.0012	0.005	0.05
Calcium	85.0	NS	NS
Chromium	0.017	0.1	1.0
Cobalt	0.0044	1.0	1.0
Copper	0.029	0.65	0.65
Iron	<b>15.0</b>	5.0	5.0
Lead	<b>0.51</b>	0.0075	0.1
Magnesium	11.0	NS	NS
Manganese	<b>0.39</b>	0.15	10
Mercury	0.00012	0.002	0.01
Nickel	0.013	0.1	2.0
Potassium	9.6	NS	NS
Silver	0.00011	0.05	NS
Sodium	21.0	NS	NS
Vanadium	0.015	0.049	0.1
Zinc	0.31	5.0	10

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

**Table 4-3 Detected Water Analytes and Comparison to TACO Tier 1 Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Concentration Detected	TACO Tier 1 Remediation Objectives for Groundwater	
		Class I	Class II
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>			
<b>SVOCs (mg/L)</b>			
Benzo(a)anthracene	<b>0.00076</b>	0.0001	0.0007
Benzo(a)pyrene	<b>0.00086</b>	0.0002	0.002
Benzo(b)fluoranthene	<b>0.0011</b>	0.0002	0.0009
Benzo(g,h,i)perylene	0.00036	NS	NS
Benzo(k)fluoranthene	<b>0.00042</b>	0.0002	0.0009
Chrysene	0.00073	0.0015	0.0075
Dibenz(a,h)anthracene	0.00012	0.0003	0.0015
Fluoranthene	0.001	0.28	1.4
Indeno(1,2,3-cd)pyrene	<b>0.00047</b>	0.0004	0.0022
Pyrene	0.001	0.21	1.05
<b>Inorganics (mg/L)</b>			
Arsenic	0.011	0.05	0.2
Barium	0.25	2.0	2.0
Beryllium	0.00034	0.004	0.5
Boron	1.1	2.0	2.0
Cadmium	0.00024	0.005	0.05
Calcium	190	NS	NS
Chromium	0.012	0.1	1.0
Cobalt	0.0023	1.0	1.0
Copper	0.0054	0.65	0.65
Iron	<b>28.0</b>	5.0	5.0
Lead	<b>0.06</b>	0.0075	0.1
Magnesium	34.0	NS	NS
Manganese	<b>2.</b>	0.15	10
Nickel	0.01	0.1	2.0
Potassium	15.0	NS	NS
Selenium	0.002	0.05	0.05
Sodium	100	NS	NS
Vanadium	0.0081	0.049	0.1
Zinc	0.13	5.0	10

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

**Table 4-3 Detected Water Analytes and Comparison to TACO Tier 1 Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Concentration Detected	TACO Tier 1 Remediation Objectives for Groundwater	
		Class I	Class II
<b>ISGS #1314V3-6 (Vacant Land)</b>			
<b>Inorganics (mg/L)</b>			
Arsenic	0.004	0.05	0.2
Barium	0.18	2.0	2.0
Boron	0.28	2.0	2.0
Cadmium	0.00021	0.005	0.05
Calcium	130	NS	NS
Chromium	0.0024	0.1	1.0
Cobalt	0.0033	1.0	1.0
Copper	0.015	0.65	0.65
Iron	<b>6.3</b>	5.0	5.0
Lead	<b>0.012</b>	0.0075	0.1
Magnesium	25.0	NS	NS
Manganese	<b>1.1</b>	0.15	10
Nickel	0.011	0.1	2.0
Potassium	4.3	NS	NS
Sodium	98.0	NS	NS
Vanadium	0.0033	0.049	0.1
Zinc	0.016	5.0	10
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>			
<b>SVOCs (mg/L)</b>			
Benzo(a)anthracene	<b>0.00039</b>	0.0001	0.0007
Benzo(a)pyrene	<b>0.00068</b>	0.0002	0.002
Benzo(b)fluoranthene	<b>0.00078</b>	0.0002	0.0009
Benzo(g,h,i)perylene	0.00055	NS	NS
Benzo(k)fluoranthene	<b>0.00029</b>	0.0002	0.0009
Chrysene	0.00046	0.0015	0.0075
Dibenz(a,h)anthracene	0.00014	0.0003	0.0015
Diethyl phthalate	0.0011	5.6	5.6
Fluoranthene	0.0007	0.28	1.4
Indeno(1,2,3-cd)pyrene	<b>0.00051</b>	0.0004	0.0022
Phenanthrene	0.0003	NS	NS
Pyrene	0.00084	0.21	1.05

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



**Table 4-3 Detected Water Analytes and Comparison to TACO Tier 1 Criteria  
FAI 74 (Interstate 74), Contract 64C08  
Moline, Rock Island County, Illinois**

Chemical	Maximum Concentration Detected	TACO Tier 1 Remediation Objectives for Groundwater	
		Class I	Class II
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>			
<b>Inorganics (mg/L)</b>			
Arsenic	0.0059	0.05	0.2
Barium	0.59	2.0	2.0
Boron	1.5	2.0	2.0
Calcium	200	NS	NS
Chromium	0.0022	0.1	1.0
Cobalt	0.0027	1.0	1.0
Copper	0.0067	0.65	0.65
Iron	<b>21.0</b>	5.0	5.0
Lead	<b>0.011</b>	0.0075	0.1
Magnesium	23.0	NS	NS
Manganese	<b>0.55</b>	0.15	10
Nickel	0.0035	0.1	2.0
Potassium	21.0	NS	NS
Selenium	0.0015	0.05	0.05
Sodium	36.0	NS	NS
Zinc	0.015	5.0	10

**Key:**

ISGS = Illinois State Geological Survey.

mg/L = Milligrams per liter.

NS = Not specified.

TACO = Tiered Approach to Corrective Action Objectives.

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
<b>ISGS #1314V3-1 (IDOT ROW)</b>							
1314V3-01-B01	None detected	1314V3-01-B01(0-6)	8.2	None	Lead (T/S)	Yes	Uncontaminated Soil
		1314V3-01-B01 (6-11)	7.7	None	None		
1314V3-01-B02	None detected	1314V3-01-B02 (0-8)	7.7	None	Manganese (T/S)	Yes	Uncontaminated Soil
1314V3-01-B03	None detected	1314V3-01-B03 (0-8)	<b>9.4</b>	None	None	No (pH)	Restricted
1314V3-01-B04	None detected	1314V3-01-B04 (0-6)	<b>9.3</b>	None	Benzo(a)anthracene <sup>c</sup> , benzo(a)pyrene, benzo(b)fluoranthene <sup>c</sup> , dibenz(a,h)anthracene, lead (T/S), manganese (T/S)	No	Non-special Waste
		1314V3-01-B04 (6-11.2)	7.7	Manganese	Lead (T/S)		
1314V3-01-B05	None detected	1314V3-01-B05 (0-6)	8.5	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-01-B05 (6-12)	8.2	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)		
1314V3-01-B06	None detected	1314V3-01-B06 (0-8)	7.9	None	Lead (T/S), manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-01-B06 (8-15)	7.8	None	None		
		1314V3-01-B06 (8-15)D	7.9	None	None		
1314V3-01-B07	None detected	1314V3-01-B07 (0-6)	7.8	None	Lead (T/S)	Yes	Uncontaminated Soil
		1314V3-01-B07 (6-12)	7.6	None	None		
1314V3-01-B08	None detected	1314V3-01-B08 (0-4)	7.7	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-01-B08 (4-9)	7.7	None	None		
1314V3-01-B09	None detected	1314V3-01-B09 (0-6)	8.6	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-01-B09 (6-11.6)	8	None	Lead (T/S), manganese (T/S)		
1314V3-01-B10	None detected	1314V3-01-B10 (0-6)	8.6	None	Manganese (T/S)	Yes	Uncontaminated Soil
1314V3-01-B11	None detected	1314V3-01-B11 (0-8)	8.3	None	None	Yes	Uncontaminated Soil
		1314V3-01-B11 (8-15)	8.6	None	Manganese (T/S)		

4-77

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
<b>ISGS #1314V3-2 (Mississippi River)</b>							
1314V3-02-B01	None detected	1314V3-02-B01 (0-5)	11.6	None	None	No (pH)	Non-special Waste
		1314V3-02-B01 (5-10)	9.8	None	Benzo(a)pyrene, manganese (T/S)		
1314V3-02-B02	None detected	1314V3-02-B02 (0-6)	9.1	None	None	No (pH)	Non-special Waste
		1314V3-02-B02 (6-12)	9.1	None	Manganese (T/S)		
		1314V3-02-B02 (6-12)D	8.9	None	Manganese (T/S)		
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>							
1314V3-04-B01	None detected	1314V3-04-B01 (0-6)	8	None	Benzo(a)pyrene, lead (T/S)	No	Non-special Waste
		1314V3-04-B01 (6-11)	8	Lead	Benzo(a)pyrene, manganese (T/S)		
<b>ISGS #1314V3-5 (Industrial Building)</b>							
1314V3-05-B01	None detected	1314V3-05-B01 (0-5)	8.1	None	None	Yes	Unrestricted
1314V3-05-B02	None detected	1314V3-05-B02 (0-6)	8.2	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-05-B02 (6-10.6)	7	None	Manganese (T/S)		
1314V3-05-B03	None detected	1314V3-05-B03 (0-5.9)	8.2	Manganese	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, lead (T/S)	No	Non-special Waste
<b>ISGS #1314V3-6 (Vacant Land)</b>							
1314V3-06-B01	None detected	1314V3-06-B01 (0-8)	8.9	Arsenic <sup>d</sup> , iron	Benzo(a)pyrene	No	Non-special Waste
1314V3-06-B02	None detected	1314V3-06-B02 (0-8)	8.6	Manganese	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene	No	Non-special Waste
1314V3-06-B03	None detected	1314V3-06-B03 (0-4)	8.6	None	Manganese (T/S)	Yes	Uncontaminated Soil
1314V3-06-B04	None detected	1314V3-06-B04 (0-5.2)	8.3	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-06-B05	None detected	1314V3-06-B05 (0-8)	8	None	Manganese (T/S)	Yes	Uncontaminated Soil

4-78

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
1314V3-06-B06	None detected	1314V3-06-B06 (0-4)	8.3	None	Benzo(a)pyrene	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-06-B07	None detected	1314V3-06-B07 (0-4.3)	8	Benzo(a)anthracene <sup>d</sup> , benzo(a)pyrene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , carbazole	Dibenz(a,h)anthracene <sup>c</sup> , indeno(1,2,3-cd)pyrene <sup>c</sup> , manganese (T/S)	No	Non-special Waste
1314V3-06-B08	None detected	1314V3-06-B08 (0-5)	8.2	None	Benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, manganese (T/S)	No	Non-special Waste
		1314V3-06-B08 (5-10)	8	Lead <sup>d</sup>	Benzo(a)pyrene		
1314V3-06-B09	None detected	1314V3-06-B09 (0-2)	8	None	Benzo(a)pyrene, benzo(b)fluoranthene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-06-B10	None detected	1314V3-06-B10 (0-6)	8.3	None	Benzo(a)pyrene	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-06-B10 (6-11)	8.4	None	Benzo(a)pyrene		
1314V3-06-B11	None detected	1314V3-06-B11 (0-6)	7.8	None	None	Yes	Uncontaminated Soil
		1314V3-06-B11 (6-10.7)	8.2	None	Manganese (T/S)		
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>							
1314V3-07-B01	None detected	1314V3-07-B01 (0-6)	<b>9.6</b>	Benzo(a)anthracene <sup>d</sup> , benzo(a)pyrene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , dibenzo(a,h)anthracene <sup>d</sup> , indeno(1,2,3-cd)pyrene <sup>d</sup>	None	No	Non-special Waste
1314V3-07-B02	3.6 - 33.7	1314V3-07-B02 (0-5)	8.2	None	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene <sup>c</sup>	No (TVOCs)	Non-special Waste

4-79

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
1314V3-07-B03	None detected	1314V3-07-B03 (0-5.5)	8	Benzo(a)anthracene <sup>d</sup> , benzo(a)pyrene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , dibenzo(a,h)anthracene <sup>d</sup> , arsenic <sup>d</sup>	Indeno(1,2,3-cd)pyrene <sup>c</sup>	No	Non-special Waste
1314V3-07-B04	None detected	1314V3-07-B04 (0-5)	8	Benzo(a)pyrene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , dibenzo(a,h)anthracene <sup>d</sup> , indeno(1,2,3-cd)pyrene <sup>d</sup>	Benzo(a)anthracene	No	Non-special Waste
		1314V3-07-B04 (5-11)	8.2	None	Manganese (T/S)		
<b>ISGS #1314V3-8 (Commercial Building)</b>							
1314V3-08-B01	None detected	1314V3-08-B01 (0-6)	7.8	None	Benzo(a)pyrene, lead (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-08-B01 (6-12)	7.7	None	None		
<b>ISGS #1314V3-11 (Vacant Land)</b>							
1314V3-11-B01	None detected	1314V3-11-B01 (0-1)	8.4	None	Manganese (T/S)	Yes	Uncontaminated Soil
1314V3-11-B02	None detected	1314V3-11-B02 (0-1)	8.4	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	
1314V3-11-B03	None detected	1314V3-11-B03 (0-1)	8.5	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-11-B03 (0-1)D	8.5	None	Benzo(a)pyrene, manganese (T/S)		
<b>ISGS #1314V3-17 (Parking Lot)</b>							
1314V3-17-B01	None detected	1314V3-17-B01 (0-7)	7.9	None	None	Yes	Unrestricted
1314V3-17-B02	None detected	1314V3-17-B02 (0-7)	7.1	Arsenic <sup>d</sup> , lead	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene <sup>c</sup> , manganese (T/S)	No	Non-special Waste
1314V3-17-B03	None detected	1314V3-17-B03 (0-7)	7.6	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-17-B03 (0-7)D	7.8	None	Manganese (T/S)		

4-80

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
<b>ISGS #1314V3-18 (Vacant Land)</b>							
1314V3-18-B01	None detected	1314V3-18-B01 (0-6)	8.7	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-18-B01 (6-12)	8.3	None	Manganese (T/S)		
		1314V3-18-B01 (12-18)	7.9	None	Manganese (T/S)		
1314V3-18-B02	None detected	1314V3-18-B02 (0-7)	8	None	None	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-18-B02 (0-7)D	8	None	None		
		1314V3-18-B02 (7-13)	7.7	None	Benzo(a)pyrene		
1314V3-18-B03	None detected	1314V3-18-B03 (0-6)	8.1	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-18-B03 (6-12)	7.6	None	Manganese (T/S)		
1314V3-18-B04	None detected	1314V3-18-B04 (0-5.3)	8.6	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-18-B05	None detected	1314V3-18-B05 (0-8)	8.1	None	Lead (T/S), manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-18-B05 (8-12)	8	None	None		
1314V3-18-B06	None detected	1314V3-18-B06 (0-6)	8.4	None	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, manganese (T/S)	Yes (within an MSA, excluding Chicago)	Uncontaminated Soil
		1314V3-18-B06 (6-12)	7.9	None	Lead (T/S)		
		1314V3-18-B06 (12-17)	8	None	Manganese (T/S)		
1314V3-18-B07	None detected	1314V3-18-B07 (0-8)	8.5	None	None	Yes	Unrestricted
1314V3-18-B08	None detected	1314V3-18-B08 (0-4.4)	8.4	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-18-B09	None detected	1314V3-18-B09 (0-8)	7.6	Arsenic <sup>d,e</sup> , thallium <sup>d,e</sup>	Manganese (T/S)	No	Non-special Waste
<b>ISGS #1314V3-21 (BNSF Railroad)</b>							
1314V3-21-B01	None detected	1314V3-21-B01 (0-5)	7.5	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-21-B01 (5-10)	7.8	None	None		

4-81

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
1314V3-21-B02	None detected	1314V3-21-B02 (0-6)	7.7	Lead	Benzo(a)pyrene, antimony (T/S), manganese (T/S)	No	Non-special Waste
		1314V3-21-B02 (0-6) D	7.7	Lead	Benzo(a)pyrene, manganese (T/S)		
<b>ISGS #1314V3-24 (John Deere)</b>							
1314V3-24-B01	None detected	1314V3-24-B01 (0-5.8)	7.8	None	Benzo(a)pyrene	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-24-B02	None detected	1314V3-24-B02 (0-5)	8.1	Arsenic <sup>d</sup> , lead <sup>d</sup> , antimony	Benzo(a)pyrene	No	Non-special Waste
		1314V3-24-B02 (5-10)	7.9	None	None		
1314V3-24-B03	None detected	1314V3-24-B03 (0-5)	8.2	Lead	Manganese (T/S)	No	Non-special Waste
		1314V3-24-B03 (5-10)	8.1	None	Manganese (T/S)		
1314V3-24-B04	None detected	1314V3-24-B04 (0-5)	8.3	Lead	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, antimony (T/S), manganese (T/S)	No	Non-special Waste
		1314V3-24-B04 (5-10)	8.5	Manganese	None		
		1314V3-24-B04 (5-10)D	8.5	None	Manganese (T/S)		
1314V3-24-B05	None detected	1314V3-24-B05 (0-5)	8.3	Antimony, lead	Benzo(a)pyrene, manganese (T/S)	No	Non-special Waste
		1314V3-24-B05 (5-10)	7.6	None	None		
1314V3-24-B06	None detected	1314V3-24-B06 (0-4)	9	Manganese	None	No	Non-special Waste
1314V3-24-B07	None detected	1314V3-24-B07 (0-5)	8.9	Lead	Manganese (T/S)	No	Non-special Waste
1314V3-24-B08	None detected	1314V3-24-B08 (0-8)	7.9	Arsenic <sup>d</sup>	None	No	Non-special Waste
1314V3-24-B09	None detected	1314V3-24-B09 (0-4)	7.5	None	Manganese (T/S)	Yes	Uncontaminated Soil

4-82

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
1314V3-24-B10	None detected	1314V3-24-B10 (0-5)	8.5	Benzo(a)anthracene <sup>d</sup> , benzo(a)pyrene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , lead	Dibenz(a,h)anthracene <sup>c</sup> , indeno(1,2,3-cd)pyrene <sup>c</sup>	No	Non-special Waste
1314V3-24-B11	None detected	1314V3-24-B11 (0-6)	8.4	Lead	Benzo(a)pyrene, manganese (T/S)	No	Non-special Waste
		1314V3-24-B11 (6-12)	7.7	None	None		
1314V3-24-B12	None detected	1314V3-24-B12 (0-6)	8	Antimony, lead, manganese <sup>d</sup>	Benzo(a)pyrene	No	Non-special Waste
		1314V3-24-B12 (6-12)	7.5	None	None		
1314V3-24-B13	None detected	1314V3-24-B13 (0-6)	7.6	Antimony, lead	None	No	Non-special Waste
		1314V3-24-B13 (6-12)	7.2	None	None		
1314V3-24-B14	None detected	1314V3-24-B14 (0-6)	8.2	Lead	None	No	Non-special Waste
		1314V3-24-B14 (6-12)	7.7	None	None		
<b>ISGS #1314V3-25 (Sivyer Steel Corp.)</b>							
1314V3-25-B01	None detected	1314V3-25-B01 (0-6)	7.5	Benzo(a)anthracene <sup>d</sup> , benzo(a)pyrene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , dibenz(a,h)anthracene <sup>d</sup> , lead, manganese	Indeno(1,2,3-cd)pyrene <sup>c</sup>	No	Non-special Waste
		1314V3-25-B01 (6-12)	8.2	None	Manganese (T/S)		
1314V3-25-B02	None detected	1314V3-25-B02 (0-6)	8.5	Lead	None	No	Non-special Waste
		1314V3-25-B02 (6-12)	8.1	None	Manganese (T/S)		
1314V3-25-B03	None detected	1314V3-25-B03 (0-8)	8.1	Lead <sup>d</sup>	Manganese (T/S)	No	Non-special Waste
1314V3-25-B04	None detected	1314V3-25-B04 (0-6)	8.1	None	None	Yes	Uncontaminated Soil
		1314V3-25-B04 (6-12)	8.1	None	Manganese (T/S)		

4-83



**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
1314V3-25-B05	None detected	1314V3-25-B05 (0-6)	7	Lead <sup>d,e</sup> , manganese	Benzo(a)pyrene, antimony (T/S)	No	Non-special Waste
		1314V3-25-B05 (6-12)	7	None	None		
1314V3-25-B06	None detected	1314V3-25-B06 (0-6)	7.4	Benzo(a)anthracene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , antimony, arsenic <sup>d</sup> , lead <sup>d,e</sup>	Benzo(a)pyrene <sup>c</sup> , dibenz(a,h)anthracene <sup>c</sup> , indeno(1,2,3-cd)pyrene <sup>c</sup>	No	Non-special Waste
		1314V3-25-B06 (6-12)	8.3	None	None		
1314V3-25-B07	None detected	1314V3-25-B07 (0-6)	7.4	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-25-B07 (6-12)	8	None	None		
<b>ISGS #1314V3-26 (Commercial Building)</b>							
1314V3-26-B01	None detected	1314V3-26-B01 (0-8)	8.2	None	None	Yes	Unrestricted
1314V3-26-B02	None detected	1314V3-26-B02 (0-8)	8.2	None	None	Yes	Unrestricted
<b>ISGS #1314V3-32 (Commercial Building)</b>							
1314V3-32-B01	None detected	1314V3-32-B01 (0-6)	8.9	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-32-B01 (6-12)	7.9	None	Manganese (T/S)		
1314V3-32-B02	None detected	1314V3-32-B02 (0-6)	7.7	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-32-B02 (6-12)	7.6	None	Manganese (T/S)		
1314V3-32-B03	None detected	1314V3-32-B03 (0-6)	8.8	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-32-B03 (6-12)	8.4	None	Manganese (T/S)		
1314V3-32-B04	None detected	1314V3-32-B04 (0-6)	8.8	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-32-B04 (6-12)	8.1	None	None		
1314V3-32-B05	None detected	1314V3-32-B05 (0-3)	8.8	None	Benzo(a)pyrene	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-32-B06	None detected	1314V3-32-B06 (0-3)	8.8	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-32-B07	None detected	1314V3-32-B07 (0-3)	8.5	None	None	Yes	Unrestricted

4-84

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
1314V3-32-B08	None detected	1314V3-32-B08 (0-3)	8.9	None	None	Yes	Unrestricted
<b>ISGS #1314V3-33 (Parking Lot)</b>							
1314V3-33-B01	None detected	1314V3-33-B01 (0-6)	7.8	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-33-B01 (6-12)	8.4	None	None		
1314V3-33-B02	None detected	1314V3-33-B02 (0-5)	8.6	None	Benzo(a)pyrene, manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
		1314V3-33-B02 (5-9.4)	8.6	None	Manganese (T/S)		
1314V3-33-B03	None detected	1314V3-33-B03 (0-6)	8.1	Benzo(a)anthracene <sup>d</sup> , benzo(a)pyrene <sup>d</sup> , benzo(b)fluoranthene <sup>d</sup> , carbazole, dibenz(a,h)anthracene <sup>d</sup> , indeno(1,2,3-cd)pyrene <sup>d</sup>	None	No	Non-special Waste
		1314V3-33-B03 (6-12)	7.7	None	None		
1314V3-33-B04	0.0 - 2.9	1314V3-33-B04 (0-6)	8.8	Lead <sup>d,e</sup>	Benzo(a)pyrene, manganese (T/S)	No	Non-special Waste
		1314V3-33-B04 (6-12)	8.4	None	Manganese (T/S)		
1314V3-33-B05	None detected	1314V3-33-B05 (0-6)	8.4	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-33-B05 (6-12)	7.9	None	Manganese (T/S)		
1314V3-33-B06	None detected	1314V3-33-B06 (0-6)	8	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-33-B06 (6-12)	7.6	None	None		
1314V3-33-B07	None detected	1314V3-33-B07 (0-8)	8.4	None	Lead (T/S), manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-33-B07 (0-8)D	8.6	None	Lead (T/S), manganese (T/S)		
<b>ISGS #1314V3-56 (Commercial Building)</b>							
1314V3-56-B01	None detected	1314V3-56-B01 (0-3)	8	None	Manganese (T/S)	Yes	Uncontaminated Soil
1314V3-56-B02	None detected	1314V3-56-B02 (0-3)	8.9	None	Manganese (T/S)	No (pH)	Non-special Waste
		1314V3-56-B02 (0-3)D	9.1	None	Manganese (T/S)		
1314V3-56-B03	None detected	1314V3-56-B03 (0-3)	8.2	None	Manganese (T/S)	Yes	Uncontaminated Soil

4-85

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
<b>ISGS #1314V3-57 (Old Chamber Building)</b>							
1314V3-57-B01	None detected	1314V3-57-B01 (0-3)	8.1	None	Benzo(a)pyrene	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-57-B02	None detected	1314V3-57-B02 (0-3)	8.4	None	benzo(a)pyrene, lead (T/S), manganese (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-57-B03	None detected	1314V3-57-B03 (0-5)	8.7	None	Manganese (T/S)	Yes	Uncontaminated Soil
<b>ISGS #1314V3-59 (Residence)</b>							
1314V3-59-B01	None detected	1314V3-59-B01 (0-5)	8.2	None	Manganese (T/S)	Yes	Uncontaminated Soil
		1314V3-59-B01 (5-10)	8.3	None	Manganese (T/S)		
<b>ISGS #1314V3-60 (Vacant Lot)</b>							
1314V3-60-B01	None detected	1314V3-60-B01 (0-6)	7.6	None	None	Yes	Unrestricted
		1314V3-60-B01 (6-11)	7.6	None	None		
1314V3-60-B02	None detected	1314V3-60-B02 (0-7)	8	None	benzo(a)pyrene, lead (T/S)	Yes (within an MSA, including Chicago)	Uncontaminated Soil
1314V3-60-B03	None detected	1314V3-60-B03 (0-4)	7.5	None	None	Yes	Unrestrictive
		1314V3-60-B03 (4-9)	7.5	None	None		
1314V3-60-B04	None detected	1314V3-60-B04 (0-5)	8.9	None	Manganese (T/S)	Yes	Uncontaminated Soil
1314V3-60-B05	None detected	1314V3-60-B05 (0-6)	8.2	None	None	Yes	Unrestricted
		1314V3-60-B05 (6-12)	7.8	None	None		

4-86

**Table 4-4 Summary of Soil Impacts  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID	Range of Headspace Readings Above Background (meter units)	Sample	pH	Contaminants of Concern <sup>a</sup>		Off-Site Management <sup>b</sup>	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
1314V3-60-B06	None detected	1314V3-60-B06 (0-6)	11.8	None	Benzo(a)anthracene <sup>c</sup> , benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene	No (pH)	Non-special Waste
		1314V3-60-B06 (6-12)	8.3	None	None		

Notes:

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

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

<sup>c</sup> The analyte concentration exceeds the MAC for Chicago Corporate limits.

<sup>d</sup> The analyte concentration exceeds the TACO Tier 1 remediation objective for the residential soil exposure route.

<sup>e</sup> The detected analyte concentration exceeds the TACO Tier 1 remediation objective for the construction worker exposure route.

Key:

ISGS = Illinois State Geological Survey.

MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill at Regulated Fill Operations.

MSA = Metropolitan Statistical Area.

SPLP = Synthetic precipitation leaching procedure.

TCLP = Toxicity characteristic leaching procedure.

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

TVOCs = Total volatile organic compounds.

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
<b>ISGS #1314V3-1 (IDOT ROW)</b>								
1314V3-01-B01	Station 252+35 to Station 252+90 (existing I-74 NB), 0 to 40' RT and 0 to 20' LT	None	Lead (T/S)	Storm Sewer	Quantity estimated from storm sewer dimensions	155.6	--	--
1314V3-01-B02	Station 252+90 to Station 253+85 (existing I-74 NB), 0 to 20' RT and 0 to 20' LT	None	Manganese (T/S)	Storm Sewer	Quantity estimated from storm sewer dimensions	280.0	--	--
1314V3-01-B03	Station 253+85 to Station 254+90 (existing I-74 NB), 0 to 20' RT and 0 to 20' LT	pH	None	Storm Sewer	Quantity estimated from storm sewer dimensions	--	311.1	--
1314V3-01-B04	Station 254+90 to Station 255+95 (existing I-74 NB), 0 to 30' RT and 0 to 20' LT	Manganese, pH	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, lead (T/S), manganese (T/S)	Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	357.8
1314V3-01-B05	Station 255+95 to Station 257+20 (existing I-74 NB), 0 to 30' RT and 0 to 50' LT	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)	Storm Sewer	Quantity estimated from storm sewer dimensions	404.4	--	--
1314V3-01-B06	Station 44+05 to Station 45+45 (proposed I-74), 35' to 95' RT	None	Lead (T/S), manganese (T/S)	Ramp construction, ditch work, pier installation; grading	Quantity estimated from IDOT excavation summary tables and cross sections.	3,523.3	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	355.6	--	--
1314V3-01-B07	Station 45+45 to Station 46+90 (proposed I-74), 35' to 95' RT	None	Lead (T/S)	Ramp construction, grading and piers	Quantity estimated from IDOT excavation summary tables and cross sections	2,700.9	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	414.8	--	--
1314V3-01-B08	Station 46+90 to Station 47+85 (proposed I-74), 35' to 125' RT	None	Manganese (T/S)	Ramp construction	Quantity estimated from IDOT excavation summary Tables and cross sections.	2,998.3	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	325.9	--	--
1314V3-01-B09	Station 430+65 to 431+45 (Ramp 6th-D), 0 to 30' RT and 0 to 30' LT	None	Lead (T/S), manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary Tables and cross sections.	780.9	--	--
1314V3-01-B10	Station 44+00 to Station 45+65 (proposed I-74), 0 to 35' RT and 0 to 75' LT	None	Manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary Tables and cross sections.	2,337.1	--	--

4-88

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
1314V3-01-B11	Station 45+65 to Station 47+75 (proposed I-74), 0 to 35' RT and 0 to 75' LT	None	Manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary Tables and cross sections.	1,474.6	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>15,751.0</b>	<b>311.0</b>	<b>358.0</b>
<b>ISGS #1314V3-2 (Mississippi River)</b>								
1314V3-02-B01	Station 219+25 to Station 219+70 (Ramp RD-H), 0 to 85' RT and 0 to 100' LT	pH	Benzo(a)pyrene, manganese (T/S)	Ramp construction, ditch work, multi-use path; storm sewer	Quantity estimated by IDOT.	--	--	32.0
1314V3-02-B02	Station 127+50 to Station 128+60 (Ramp RD-G), 0 to 210' RT and 0 to 105' LT	pH	Manganese (T/S)	Ramp construction, ditch work, multi-use path; Storm sewer	Quantity estimated by IDOT.	--	--	80.0
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>0.0</b>	<b>0.0</b>	<b>112.0</b>
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>								
1314V3-04-B01	Station 252+35 to Station 252+90 (existing I-74 SB), 0 to 60' LT	Lead	Benzo(a)pyrene, manganese (T/S)	Storm Sewer	Quantity estimated by IDOT.	--	--	47.7
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>0.0</b>	<b>0.0</b>	<b>48.0</b>
<b>ISGS #1314V3-5 (Industrial Building)</b>								
1314V3-05-B02	Station 256+80 to Station 257+75 (existing I-74 NB), 45' LT to 195' LT	None	Manganese (T/S)	Potential UST	No Excavation Proposed.	--	--	--
1314V3-05-B03	Station 257+75 to Station 258+95 (existing I-74 NB), 45' LT to 195' LT	Manganese	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, lead (T/S)	Potential UST	No Excavation Proposed.	--	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>ISGS #1314V3-6 (Vacant Land)</b>								
1314V3-06-B01	Station 128+65 to Station 129+60 (Ramp RD-G), 40' to 185' RT	Arsenic, iron	benzo(a)pyrene	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	2,820.7
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	168.9
1314V3-06-B02	Station 129+60 to Station 130+70 (Ramp RD-G), 40' to 155' RT	Manganese	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	2,476.8
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	195.6

4-89

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
1314V3-06-B03	Station 130+70 to Station 131+50 (Ramp RD-G), 70' to 120' RT	None	Manganese (T/S)	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	115.2	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	183.3	--	--
1314V3-06-B04	Station 132+30 to Station 133+10 (Ramp RD-G), 0 to 20' and 0 to 50' LT	None	Benzo(a)pyrene, manganese (T/S)	Ramp Construction	Quantity estimated from IDOT excavation summary tables and cross sections.	0.0	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	53.5	--	--
1314V3-06-B05	Station 133+10 to Station 134+00 (Ramp RD-G), 45' to 100' RT	None	Manganese (T/S)	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	34.4	--	--
1314V3-06-B06	Station 134+00 to Station 134+75 (Ramp RD-G), 25' to 110' RT	None	Benzo(a)pyrene	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	41.2	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	62.2	--	--
1314V3-06-B07	Station 133+65 to Station 134+65 (Ramp RD-G), 95' to 235' RT	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole	Dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, manganese (T/S)	Potential UST	No Excavation Proposed.	--	--	0.0
1314V3-06-B08	Station 133+65 to Station 135+20 (Ramp RD-G), 235' to 420' RT	Lead	Benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, manganese (T/S)	Potential UST	No Excavation Proposed.	--	--	0.0
1314V3-06-B09	Station 134+00 to Station 134+65 (Ramp RD-G), 0 to 25' RT and 0 to 55' LT	None	Benzo(a)pyrene, benzo(b)fluoranthene, manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	0.0	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	40.9	--	--
1314V3-06-B10	Station 211+10 to Station 212+35 (Ramp RD-H), 5' to 95' RT	None	Benzo(a)pyrene	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	220.3	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	316.7	--	--
1314V3-06-B11	Station 30+60 to Station 31+35 (proposed I-74), 0 to 20' RT and 0 to 20' LT	None	Manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	92.6	--	--
VL1-2	Station 30+60 to Station 31+35 (proposed I-74), 20 to 100' RT	None	Manganese (T/S)	Ramp construction and Pier	Quantity estimated from IDOT excavation summary tables and cross sections.	138.9	--	--

4-90

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

4-91

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
VL1-3	Station 30+60 to Station 31+15 (proposed I-74), 30' to 100' LT	None	Lead (T/S), manganese (T/S)	Ramp Construction, multiuse path installation, ditch work	Quantity estimated from IDOT excavation summary tables and cross sections.	120.4	--	--
VL1-10	Station 133+10 to Station 134+00 (Ramp RD-G), 0 to 50' RT and 0 to 50' LT	Manganese	Benzo(a)pyrene	Ramp Construction, multiuse path installation, ditch work	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	0.0
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	59.8
VL1-12	Station 27+40 to Station 29+20 (proposed I-74), 0 to 20' RT and 0 to 95' LT	Lead	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene	Ramp construction and unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	3,448.0
VL1-13	Station 131+45 to Station 132+30 (Ramp RD-G), 0 to 95' RT and 0 to 5' LT	Benzo(a)anthracene, benzo(a)pyrene, pH	Indeno(1,2,3-dc)pyrene	Ramp Construction, multiuse path installation, ditch work	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	113.3
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	195.6
VL1-15	Station 26+00 to Station 27+40 (proposed I-74), 0 to 15' RT and 0 to 100' LT	Lead	benzo(a)pyrene	Ramp construction and unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	802.2
VL1-16	Station 130+70 to Station 131+45 (Ramp RD-G), 0 to 70' RT and 0 to 5' LT	Benzo(a)anthracene, benzo(a)pyrene	Indeno(1,2,3-dc)pyrene	Ramp Construction, multiuse path installation, ditch work	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	378.6
VL1-17	Station 128+60 to Station 130+65 (Ramp RD-G), 0 to 40' RT and 0 to 35' LT	Manganese	Lead (T/S)	Ramp construction and unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	13,708.8
VL1-19	Station 127+50 to Station 128+60 (Ramp RD-G), 0 to 115' RT and 0 to 35' LT	None	Benzo(a)pyrene, Dibenzo(a,h)anthracene	Ramp construction and unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	708.3	--	--
VB-5	Station 134+75 to Station 135+30 (Ramp RD-G), 25' RT to 115' RT	Manganese	Lead (T/S)	Ramp Construction, multiuse path installation, ditch work	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	19.3
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	125.3
1314V3-07-B01	Station 217+55 to Station 219+45 (Ramp RD-H), 85 to 120' LT	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, pH	None	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	708.4
1314V3-07-B02	Station 216+35 to Station 218+55 (Ramp RD-H), 55' to 90' LT	TVOCs	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	2,173.5



**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
1314V3-07-B03	Station 215+35 to Station 216+35 (Ramp RD-H), 55' to 100' LT	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, arsenic	Indeno(1,2,3-cd)pyrene	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	1,817.5
1314V3-08-B01	Station 212+35 to Station 214+85 (Ramp RD-H), 0 to 65' LT	None	Benzo(a)pyrene, lead (T/S)	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	298.3	--	--
CB-8	Station 213+30 to Station 214+15 (Ramp RD-H), 10' to 65' LT	Lead	Benzo(a)pyrene, manganese (T/S)	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	142.6
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>2,128.0</b>	<b>0.0</b>	<b>24,513.0</b>
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>								
1314V3-07-B01	Station 217+45 to Station 219+40 (Ramp RD-H), 0 to 25' RT and 0 to 85' LT	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, pH	None	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	1,080.0
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	422.2
1314V3-07-B02	Station 216+35 to Station 217+45 (Ramp RD-H), 0 to 30' RT and 0' to 55' LT	TVOCs	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	5,847.8
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	422.2
1314V3-07-B03	Station 215+35 to Station 216+35 (Ramp RD-H), 0 to 30' RT and 0 to 55' LT	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, arsenic	None	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	1,957.0
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	422.2
1314V3-07-B04	Station 214+15 to Station 215+35 (Ramp RD-H), 0 to 55' RT and 0 to 55' LT	Benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene	benzo(a)anthracene, manganese (T/S)	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	146.2
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	464.4
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>0.0</b>	<b>0.0</b>	<b>10,762.0</b>

4-92

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
<b>ISGS #1314V3-8 (Commercial Building)</b>								
1314V3-08-B01	Station 212+35 to Station 214+85 (Ramp RD-H), 0 to 55' RT	None	Benzo(a)pyrene, lead (T/S)	Ramp Construction, multiuse path installation, ditch work	Quantity estimated from IDOT excavation summary tables and cross sections.	36.4	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	358.9	--	--
CB-8	Station 213+30 to Station 214+15 (Ramp RD-H), 0 to 55 RT	Lead	Benzo(a)pyrene, manganese (T/S)	Ramp Construction, multiuse path installation, ditch work, unsuitable material	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	27.5
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	337.8
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>395.0</b>	<b>0.0</b>	<b>365.0</b>
<b>ISGS #1314V3-11 (Vacant Land)</b>								
1314V3-11-B01	Station 259+00 to Station 259+75 (existing I-74 SB), 80' to 170' RT	None	Manganese (T/S)	Grading	33% of excavation quantity estimated by IDOT.	2.4	--	--
1314V3-11-B02	Station 259+75 to Station 260+85 (existing I-74 SB), 80' to 170' RT	None	Benzo(a)pyrene, manganese (T/S)	Grading	33% of excavation quantity estimated by IDOT.	2.4	--	--
1314V3-11-B03	Station 259+00 to Station 259+75, (existing I-74 SB), 60' to 180' LT	None	Benzo(a)pyrene, manganese (T/S)	Grading	33% of excavation quantity estimated by IDOT.	2.4	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>7.0</b>	<b>0.0</b>	<b>0.0</b>
<b>ISGS #1314V3-17 (Parking Lot)</b>								
1314V3-17-B02	Station 263+00 to Station 264+00 (existing I-74 SB), 35' to 75' RT	Arsenic, lead	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, manganese (T/S)	Grading	33% of excavation quantity estimated by IDOT.	--	--	50.9
1314V3-17-B03	Station 264+00 to Station 264+75, (existing I-74 SB), 35' to 75' RT	None	Manganese (T/S)	Grading	33% of excavation quantity estimated by IDOT.	50.9	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>52.0</b>	<b>26.0</b>	<b>51.0</b>
<b>ISGS #1314V3-18 (Vacant Land)</b>								
1314V3-18-B01	Station 327+50 to Station 328+50 (Ramp 6th C), 0 to 20' RT and 0 to 80' LT	None	Manganese (T/S)	Ramp construction, pier installation, retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	2,104.7	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	311.1	--	--

4-93

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
1314V3-18-B02	Station. 327+00 to Station 328+00 (Ramp 6th-C), 120' to 310' RT	None	Benzo(a)pyrene	Ramp construction, pier installation, retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	4,755.3	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	328.9	--	--
1314V3-18-B03	Station 326+50 to Station 327+50 (Ramp 6th-C), 0 to 40' RT and 0 to 70' LT	None	Manganese (T/S)	Ramp construction, pier installation, retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	1,342.4	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	435.6	--	--
1314V3-18-B04	Station 32+00 to Station 32+90 (proposed I-74), 0 to 45' RT and 0 to 10' LT	None	Benzo(a)pyrene, manganese (T/S)	Possible UST and road reconstruction (fill)	IDOT excavation summary tables and cross sections.	0.0	--	--
1314V3-18-B05	Station 429+30 to Station 430+05 (Ramp 6th-D), 0 to 25' RT and 0 to 120' LT	None	Lead (T/S), manganese (T/S)	Ramp construction, pier installation, retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	1,071.3	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	808.9	--	--
1314V3-18-B06	Station 430+05 to Station 432+20 (Ramp 6th-D), 0 to 30' RT and 0 to 130' LT	None	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead (T/S), manganese (T/S)	Ramp construction, pier installation, retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	1,776.0	--	--
1314V3-18-B08	Station 32+35 to Station 32+55 (proposed I-74), 35' to 70' LT	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)	Possible UST and road reconstruction (fill)	IDOT excavation summary tables and cross sections.	0.0	--	--
1314V3-18-B09	Station 32+55 to Station 32+90 (proposed I-74), 10' to 70' LT	Arsenic, thallium	Manganese (T/S)	Possible UST and road reconstruction (fill)	IDOT excavation summary tables and cross sections.	--	--	0.0
VL2-5	Station 325+55 to Station 326+50 (Ramp 6th-C), 0 to 40' RT and 0 to 50' LT	None	Benzo(a)pyrene	Grading and storm sewer	Quantity estimated from IDOT excavation summary tables and cross sections.	140.0	--	--
VL2-8	Station 430+05 to Station 430+65 (Ramp 6th-D), 0 to 30' RT and 0 to 130' LT	Manganese, Lead	Benzo(a)pyrene	Grading	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	2,133.1
VL2-9	Station 327+05 to Station 329+30 (Ramp 6th-C), 20 to 120' RT	Lead	Benzo(a)pyrene, manganese (T/S)	Grading	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	3,222.5
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>13,074.0</b>	<b>0.0</b>	<b>5,356.0</b>

4-94

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
<b>ISGS #1314V3-21 (BNSF Railroad)</b>								
1314V3-21-B01	Station 35+10 to Station 36+25 (proposed I-74), 0 to 155' RT	None	Benzo(a)pyrene, manganese (T/S)	Ramp construction and Storm Sewer	Quantity estimated from storm sewer dimensions	518.5	--	--
1314V3-21-B02	Station 35+10 to Station 36+25 (proposed I-74), 0 to 125' LT	Lead	Benzo(a)pyrene, antimony (T/S) manganese (T/S)	Ramp construction and Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	100.0
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>519.0</b>	<b>0.0</b>	<b>100.0</b>
<b>ISGS #1314V3-24 (John Deere)</b>								
1314V3-24-B01	Station 36+25 to Station 37+00 (proposed I-74), 60' to 100' RT	None	Benzo(a)pyrene	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	490.2	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	129.6	--	--
1314V3-24-B02	Station 37+00 to Station 37+85 (proposed I-74), 60' to 110' RT	Arsenic, lead, antimony	Benzo(a)pyrene	Ramp construction and Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	207.4
1314V3-24-B03	Station 37+85 to Station 38+60 (proposed I-74), 65' to 165' RT	Lead	Manganese (T/S)	Ramp construction	Quantity estimated from storm sewer dimensions	--	--	207.4
1314V3-24-B04	Station 38+25 to 39+35 (proposed I-74), 0 to 110' RT and 0 to 50' LT	Lead, manganese	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, antimony (T/S), manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	259.3
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	259.3
1314V3-24-B05	Station 39+35 to 40+00 (proposed I-74), 35' to 115' RT	Antimony, lead	Benzo(a)pyrene, manganese (T/S)	Ramp construction and Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	233.3
1314V3-24-B06	Station 5000+75 to Station 5001+70 (5th Avenue), 0 to 115' LT	Manganese	None	Access Road reconstruction	No excavation proposed.	--	--	0.0
1314V3-24-B07	Station 39+35 to Station 40+00 (proposed I-74), 35' to 50' LT	Lead	Manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	111.1
1314V3-24-B08	Station 429+80 to Station 430+75 (Ramp 6th-D), 0 to 40' RT and 0 to 70' LT	Arsenic	None	Ramp construction and retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	165.0
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	425.9
1314V3-24-B09	Station 5001+70 to 5002+85 (5th Avenue), 0 to 150' LT	None	Manganese (T/S)	Road reconstruction and storm sewer	Quantity estimated from IDOT excavation summary tables and cross sections.	203.7	--	--

4-95

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
1314V3-24-B10	Station 330+75 to Station 332+85 (Ramp 6th-C), 0 to 35' RT and 0 to 40' LT	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead	Dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene	Ramp construction and retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	27.2
1314V3-24-B11	Station 332+00 to Station 332+85 (Ramp 6th-C), 40 to 95' LT	Lead	Benzo(a)pyrene, manganese (T/S)	Potential UST and road reconstruction (fill)	No Excavation Proposed.	--	--	0.0
1314V3-24-B12	Station 332+85 to Station 333+00 (Ramp 6th-C), 50' to 85' LT	Antimony, lead, manganese	Benzo(a)pyrene	Potential UST and road reconstruction (fill)	No Excavation Proposed.	--	--	0.0
1314V3-24-B13	Station 330+75 to Station 332+85 (Ramp 6th-C), 20' to 65' LT	Antimony, Lead	None	Potential UST and road reconstruction (fill)	No Excavation Proposed.	--	--	0.0
1314V3-24-B14	Station 332+85 to Station 333+00 (Ramp 6th-C), 0 to 50' LT	Antimony, Lead	None	Possible UST and road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	163.5
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>824.0</b>	<b>0.0</b>	<b>2,059.0</b>
<b>ISGS #1314V3-25 (Sivyer Steel Corp.)</b>								
1314V3-25-B01	Station 409+90 to Station 410+75 (4th Avenue), 0 to 85' RT	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, lead, manganese	Manganese (T/S), indeno(1,2,3-cd)pyrene	Road reconstruction, curb, gutter and sidewalk replacement	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	73.7
1314V3-25-B02	Station 410+75 to Station 412+25 (4th Avenue), 0 to 85' RT	Lead	Manganese (T/S)	Road reconstruction, curb, gutter and sidewalk replacement	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	60.8
1314V3-25-B03	Station 426+15 to Station 426+80 (Ramp 6th-D), 0 to 35' RT and 0 to 90' LT	Lead	Manganese (T/S)	Ramp construction and retaining wall	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	0.0
				Storm Sewer	Quantity estimated from storm sewer dimensions	--	--	124.4
1314V3-25-B04	Station 426+80 to Station 427+65 (Ramp 6th-D), 0 to 35' RT and 0 to 20' LT	None	Manganese (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	331.2	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	259.3	--	--
1314V3-25-B05	Station 36+20 to Station 39+35 (proposed I-74), 0 to 20' RT and 0 to 65' LT	Lead, manganese	Benzo(a)pyrene, antimony (T/S)	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	280.7
1314V3-25-B06	Station 36+15 to Station 36+40 (proposed I-74), 20' to 85' RT	Benzo(a)anthracene, benzo(b)fluoranthene, antimony, arsenic, lead	Benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene	Ramp construction and pier installation	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	458.0

4-96

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
1314V3-25-B07	Station 408+90 to Station 409+90 (4th Avenue), 0 to 85' RT	None	Manganese (T/S)	Ramp construction and pier installation, curb and gutter	Quantity estimated from IDOT excavation summary tables and cross sections.	616.7	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>1,207.0</b>	<b>0.0</b>	<b>998.0</b>
<b>ISGS #1314V3-32 (Commercial Building)</b>								
1314V3-32-B01	Station 1904+70 to Station 1905+00 (proposed 19th Street), 40' to 95' LT	None	Manganese (T/S)	Potential UST	No Excavation Proposed.	0.0	--	--
1314V3-32-B02	Station 1905+00 to Station 1905+25 (proposed 19th Street), 45' to 95' LT	None	Manganese (T/S)	Potential UST	No Excavation Proposed.	0.0	--	--
1314V3-32-B03	Station 1905+25 to Station 1905+60 (proposed 19th Street), 0 to 95' LT)	None	Manganese (T/S)	Road construction and potential UST	10% of excavation quantity estimated by IDOT.	9.4	--	--
1314V3-32-B04	Station 1905+00 to Station 1905+25 (proposed 19th Street), 0 to 45' LT	None	Manganese (T/S)	Road construction and potential UST	10% of excavation quantity estimated by IDOT.	9.4	--	--
1314V3-32-B05	Station 1904+70 to Station 1905+00 (proposed 19th Street), 0 to 40' LT	None	Benzo(a)pyrene	Road construction and potential UST	25% of excavation quantity estimated by IDOT.	23.6	--	--
1314V3-32-B06	Station 31+75 to 32+65 (19th Street) 0 to 50' LT	None	Benzo(a)pyrene, manganese (T/S)	Road construction	55% of excavation quantity estimated by IDOT.	51.9	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>94.0</b>	<b>0.0</b>	<b>0.0</b>
<b>ISGS #1314V3-33 (Parking Lot)</b>								
1314V3-33-B01	Station 5000+15 to Station 5001+15 (5th Avenue), 0 to 30' RT	None	Benzo(a)pyrene, manganese (T/S)	Road construction and potential UST	40% of excavation quantity estimated by IDOT.	64.5	--	--
1314V3-33-B02	Station 5001+15 to Station 5001+70 (5th Avenue), 0 to 100' RT	None	Benzo(a)pyrene, manganese (T/S)	Road reconstruction	35% of excavation quantity estimated by IDOT.	56.4	--	--
1314V3-33-B03	Station 5000+85 to Station 5001+15 (5th Avenue), 30' to 60' RT	Benzo(a)anthracene, Benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene	None	Potential UST	No Excavation Proposed.	--	--	0.0
1314V3-33-B04	Station 5000+55 to Station 5001+15 (5th Avenue), 60' to 90' RT	Lead, VOCs	Benzo(a)pyrene, manganese (T/S)	Potential UST	No Excavation Proposed.	--	--	0.0

4-97

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
1314V3-33-B05	Station 5000+15 to Station 5000+55 (5th Avenue), 30' to 60' RT	None	Manganese (T/S)	Potential UST	No Excavation Proposed.	0.0	--	--
1314V3-33-B06	Station 4999+25 to Station 5000+15 (5th Avenue), 0 to 60' RT	None	Manganese (T/S)	Road Reconstruction (fill)	No Excavation Proposed.	0.0	--	--
1314V3-33-B07	Station 270+25 to Station 271+25(existing I-74), 65' to 145' RT	None	Lead (T/S), manganese (T/S)	Road reconstruction	25% of excavation quantity estimated by IDOT.	40.3	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>161.0</b>	<b>0.0</b>	<b>0.0</b>
<b>ISGS #1314V3-56 (Commercial Building)</b>								
1314V3-56-B01	Station 303+10 to Station 304+10 (6th Avenue), 0 to 45' RT	None	Manganese (T/S)	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	121.3	--	--
1314V3-56-B02	Station 34+70 to Station 35+70 (19th Street), 0 to 55' LT	pH	Manganese (T/S)	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	38.8
1314V3-56-B03	Station 35+70 to 36+55 (19th Street), 0 to 55' LT	None	Manganese (T/S)	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	125.4	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>247.0</b>	<b>0.0</b>	<b>39.0</b>
<b>ISGS #1314V3-57 (Old Chamber Building)</b>								
1314V3-57-B01	Station 36+55 to Station 37+50 (19th Street), 0 to 55' LT	None	Benzo(a)pyrene	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	195.7	--	--
1314V3-57-B02	Station 209+65 to Station 211+50, (7th Avenue), 0 to 85' LT	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	661.6	--	--
1314V3-57-B03	Station 211+50 to Station 212+60 (7th Avenue), 0 to 85' LT	None	Manganese (T/S)	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	471.4	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	74.1	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>1,403.0</b>	<b>0.0</b>	<b>0.0</b>
<b>ISGS #1314V3-59 (Residence)</b>								
1314V3-59-B01	Station 305+00 to Station 306+20 (6th Avenue), 0 to 45' RT	None	Manganese (T/S)	Road reconstruction and storm sewer	Quantity estimated from IDOT excavation summary tables and cross sections.	621.4	--	--
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>621.0</b>	<b>0.0</b>	<b>0.0</b>

4-98

**Table 4-5 Estimate of Impacted Soil Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Boring ID <sup>a</sup>	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Excavation Dimension Assumption <sup>b</sup>	Estimated Volume of Impacted Soil <sup>b</sup> (cubic yards)		
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			Eligible for CCDD or USFO	Ineligible for CCDD or USFO	Non-Special Waste
<b>ISGS #1314V3-60 (Vacant Lot)</b>								
1314V3-60-B02	Station 644+95 to Station 645+80 (Ramp 7th-A), 0 to 115' RT and 0 to 30' LT	None	Benzo(a)pyrene and Lead (T/S)	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	1,223.0	--	--
				Storm Sewer	Quantity estimated from storm sewer dimensions	133.3	--	--
1314V3-60-B04	Station 216+70 to Station 217+75 (7th Avenue), 0 to 100' LT	None	Manganese (T/S)	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	243.1	--	--
1314V3-60-B06	Station 309+85 to Station 310+70 (6th Avenue), 0 to 150' RT	pH	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene	Road reconstruction	Quantity estimated from IDOT excavation summary tables and cross sections.	--	--	1,307.1
<b>Total Volume of Impacted Soil in Construction Zone:</b>						<b>1,604.0</b>	<b>77.0</b>	<b>1,307.0</b>

Notes:

<sup>a</sup> Borings shown for each site include borings from adjacent sites where COCs from the adjacent sites are assumed to extend to the proposed construction area on the site.

<sup>b</sup> Estimated excavation volumes are based on quantities provided by IDOT. Impacted soil volumes for each boring were estimated by totalling the proposed excavation volume provided in IDOT's Engineer's Earthwork Summary Tables. Excavation quantities were provided at 10 foot interval stationing. Volumes were adjusted for each boring location to account for horizontal and vertical stationing. The lateral extent of impacted soil at a boring was assumed to extend one-half the distance between the impacted boring and any adjacent boring(s). Lateral features (i.e., storm sewers) were calculated based on pipe trench geometry where the depths were identified from cross sections details, trench widths were assumed to be the IDOT standards based on pipe size, and length of the linear feature was manually measured

<sup>c</sup> Estimated excavation volumes shown are based on exceedences identified from borings collected by Weston Solutions under Agreement No. PTB 167-034, Work Order No. 040 to investigate for Job No. P-92-032-01 under Contract NO. 64J68. Borings were collected in May 2014.

Key:  
 COCs = Contaminants of concern.  
 ISGS = Illinois State Geological Survey  
 MACs = Maximum allowable concentration of chemical constituents in uncontaminated soil used as fill material at regulated fill operations  
 T/S = Toxicity characteristic leaching procedure/synthetic precipitation leaching procedure  
 MSA = Metropolitan Statistical Area.  
 VOC = Volatile organic compound.  
 TVOCs = Total volatile organic compounds.

4-99



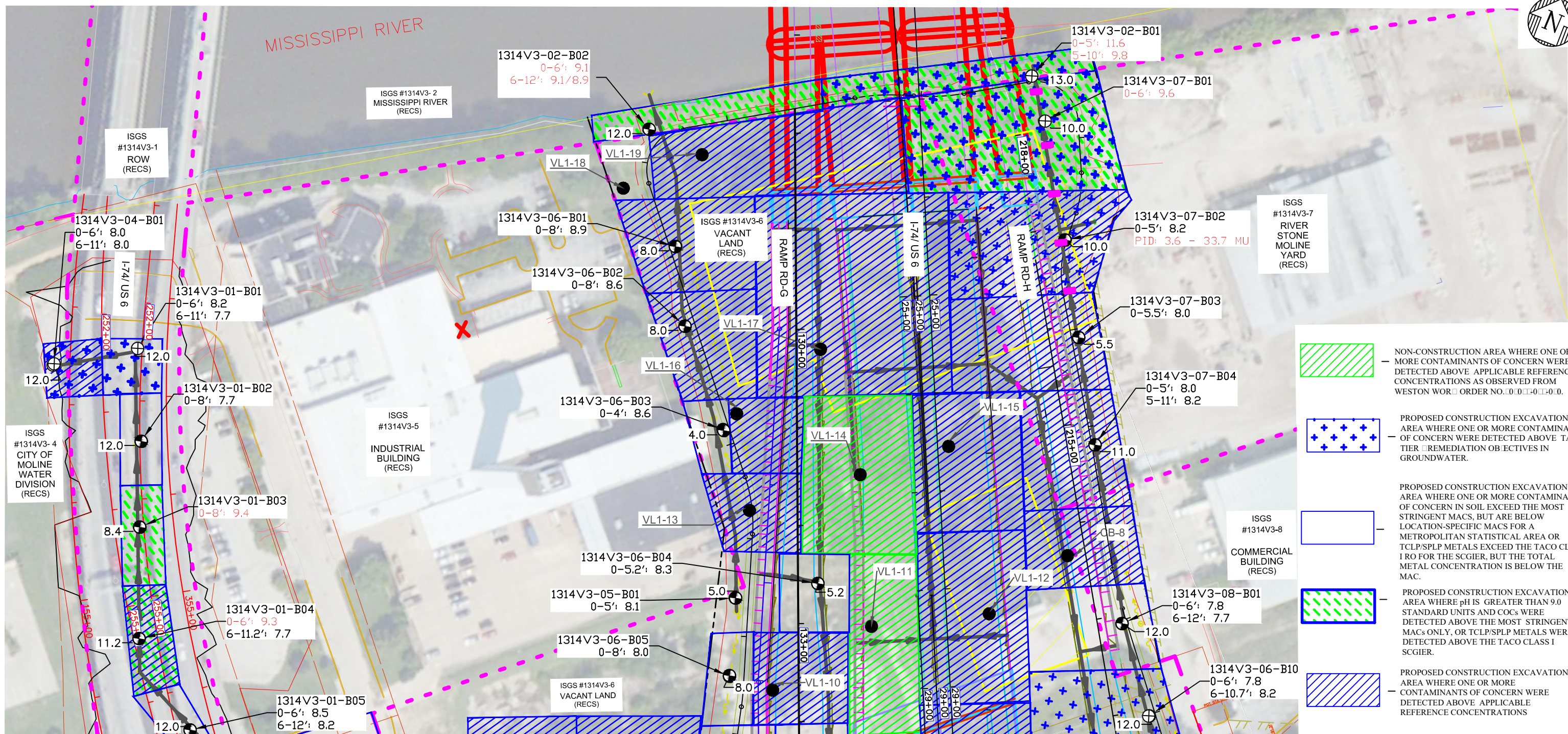
**Table 4-6 Estimates of Impacted Groundwater Within IDOT Construction Areas  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Impacted Groundwater Sample Near Construction Feature	Construction Feature	Contaminants of Concern Detected Above TACO Tier 1 Remediation Objectives	Depth to Groundwater (feet bgs)	Maximum Depth of Construction (feet bgs)	Estimated Dimensions of Excavation With Impacted Groundwater		Estimated Volume of Impacted Groundwater Within Excavation (gallons)
					Area (square yards)	Depth (yards bgs)	
<b>ISGS #1314V3-4 (City of Moline, Water Department)</b>							
1314V3-04-B01	Sewer	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene	11.0	12.0	52.78	0.3	3,553.2
<b>Estimated Volume of Groundwater in Construction Zone:</b>							<b>3,553</b>
<b>ISGS #1314V3-7 (River Stone Moline Yard)</b>							
1314V3-07-B01	Sewer	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene	6.0	12.0	111.11	2.0	44,883.1
1314V3-07-B02	Sewer	Sheen observed on groundwater	6.0	12.0	111.11	2.0	44,883.1
<b>Estimated Volume of Groundwater in Construction Zone:</b>							<b>89,766</b>

Key:

ISGS = Illinois State Geological Survey.

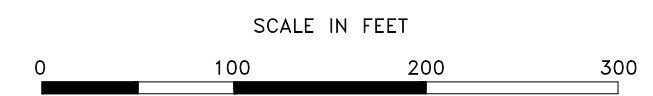
TACO = Tiered Approach to Corrective Action Objectives.



- NON-CONSTRUCTION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE APPLICABLE REFERENCE CONCENTRATIONS AS OBSERVED FROM WESTON WORK ORDER NO. 0001001000.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE TACO TIER 1 REMEDIATION OBJECTIVES IN GROUNDWATER.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACs, BUT ARE BELOW LOCATION-SPECIFIC MACs FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEED THE TACO CLASS I RO FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE pH IS GREATER THAN 9.0 STANDARD UNITS AND COCs WERE DETECTED ABOVE THE MOST STRINGENT MACs ONLY, OR TCLP/SPLP METALS WERE DETECTED ABOVE THE TACO CLASS I SCGIER.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE APPLICABLE REFERENCE CONCENTRATIONS

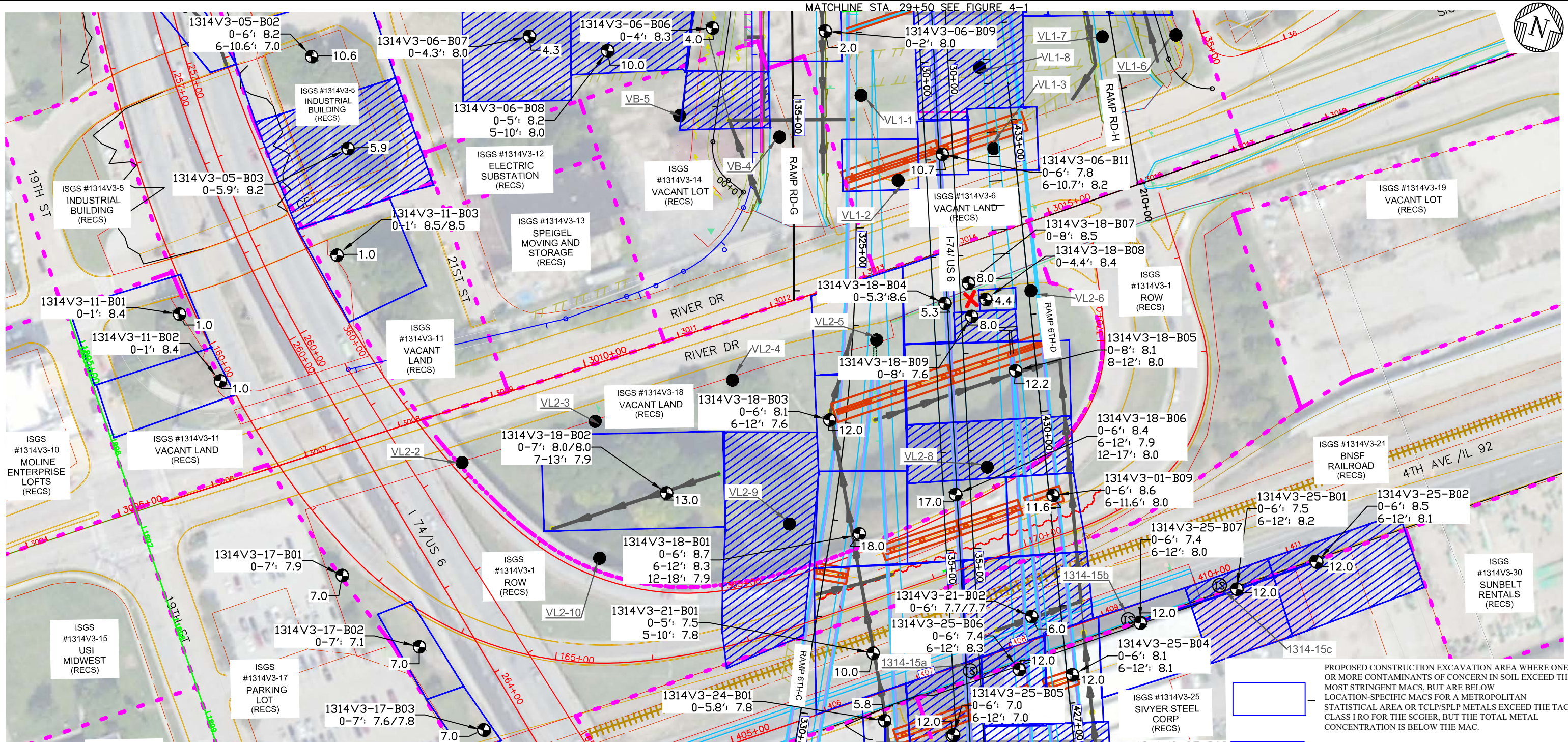
**LEGEND**

- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED CULVERT
- PROPOSED BRIDGE STRUCTURE
- PROPOSED RETAINING WALL
- PROPOSED ANCHOR SLAB
- PROPOSED UNDERDRAIN
- PROPOSED DITCH
- PROPOSED TEMPORARY EASEMENT
- PROPOSED ROW
- EXISTING ROW
- LIMITS OF CONSTRUCTION
- APPROXIMATE PESA SITE BOUNDARY
- PROPOSED BORING LOCATION (DEPTH IN FEET)
- PROPOSED ROAD
- EXISTING ROAD
- PROPOSED CENTERLINES
- EXISTING CENTERLINES
- PROPOSED BIKE PATH
- TEMPORARY MONITORING WELL (DEPTH IN FEET)
- PSI BORING BY WESTON (PTB 167-034, W040)
- APPROXIMATE LOCATION OF POSSIBLE USTs
- UNSUITABLE MATERIAL
- BACKFILL PLUG



NOTE: CONTAMINANTS OF CONCERN ARE SUMMARIZED ON FIGURES 4-5, 4-6, AND 4-7.

CAD FILE EE9 W046 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS	 Global Environmental Specialists	INVESTIGATION DATA SUMMARY	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/16/2017	FIGURE
REVISION 1	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		FAI 74 - INTERSTATE 74 (CONTRACT # 64C08)	IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: 1" = 100'	4-1



**LEGEND**

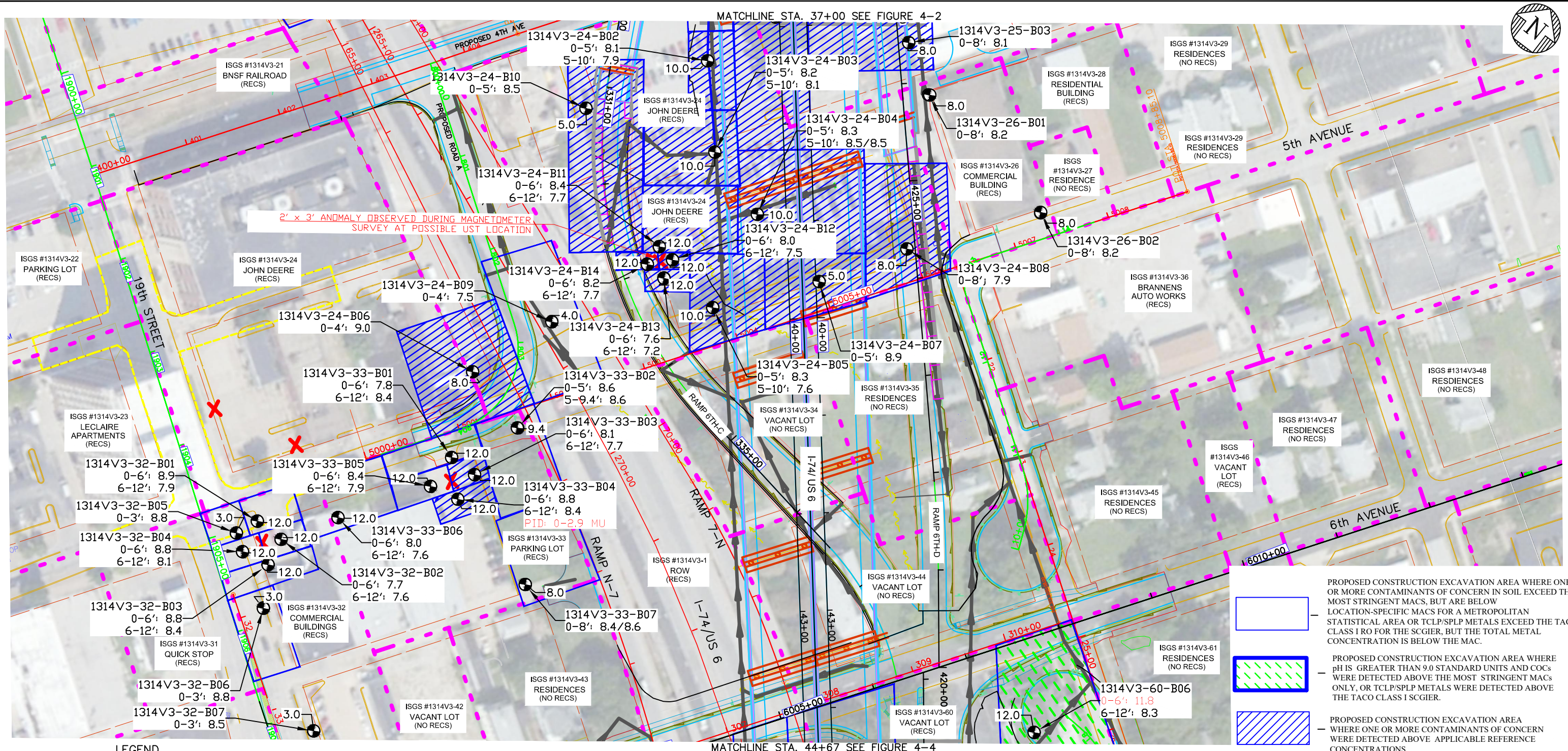
<ul style="list-style-type: none"> <li>— PROPOSED STORM SEWER</li> <li>— EXISTING STORM SEWER</li> <li>⊙ — EXISTING MANHOLE</li> <li>⊙ — PROPOSED MANHOLE</li> <li>○ — EXISTING CATCH BASIN</li> <li>● — PROPOSED CATCH BASIN</li> </ul>	<ul style="list-style-type: none"> <li>— PROPOSED CULVERT</li> <li>— PROPOSED BRIDGE STRUCTURE</li> <li>— PROPOSED RETAINING WALL</li> <li>— PROPOSED ANCHOR SLAB</li> <li>— PROPOSED UNDERDRAIN</li> <li>— PROPOSED DITCH</li> </ul>	<ul style="list-style-type: none"> <li>— PROPOSED TEMPORARY EASEMENT</li> <li>— PROPOSED ROW</li> <li>— EXISTING ROW</li> <li>— LIMITS OF CONSTRUCTION</li> <li>— APPROXIMATE PESA SITE BOUNDARY</li> <li>⊙ 2.0 — PROPOSED BORING LOCATION (DEPTH IN FEET)</li> </ul>	<ul style="list-style-type: none"> <li>— PROPOSED ROAD</li> <li>— EXISTING ROAD</li> <li>— PROPOSED CENTERLINES</li> <li>— EXISTING CENTERLINES</li> <li>— PROPOSED BIKE PATH</li> <li>⊕ 2.0 — TEMPORARY MONITORING WELL (DEPTH IN FEET)</li> </ul>	<ul style="list-style-type: none"> <li>● — PSI BORING BY WESTON (PTB 167-034, W040)</li> <li>✗ — APPROXIMATE LOCATION OF POSSIBLE USTs</li> <li>IS — ISGS BORING LOCATION</li> </ul>
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SCALE IN FEET

0 100 200 300

NOTE: CONTAMINANTS OF CONCERN SUMMARIZED ON FIGURES 4-8 THROUGH 4-11

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		INVESTIGATION DATA SUMMARY	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/16/2017	FIGURE
REVISION 1	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		Global Environmental Specialists	FAI 74 - INTERSTATE 74 (CONTRACT # 64C08)	IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: 1" = 100'



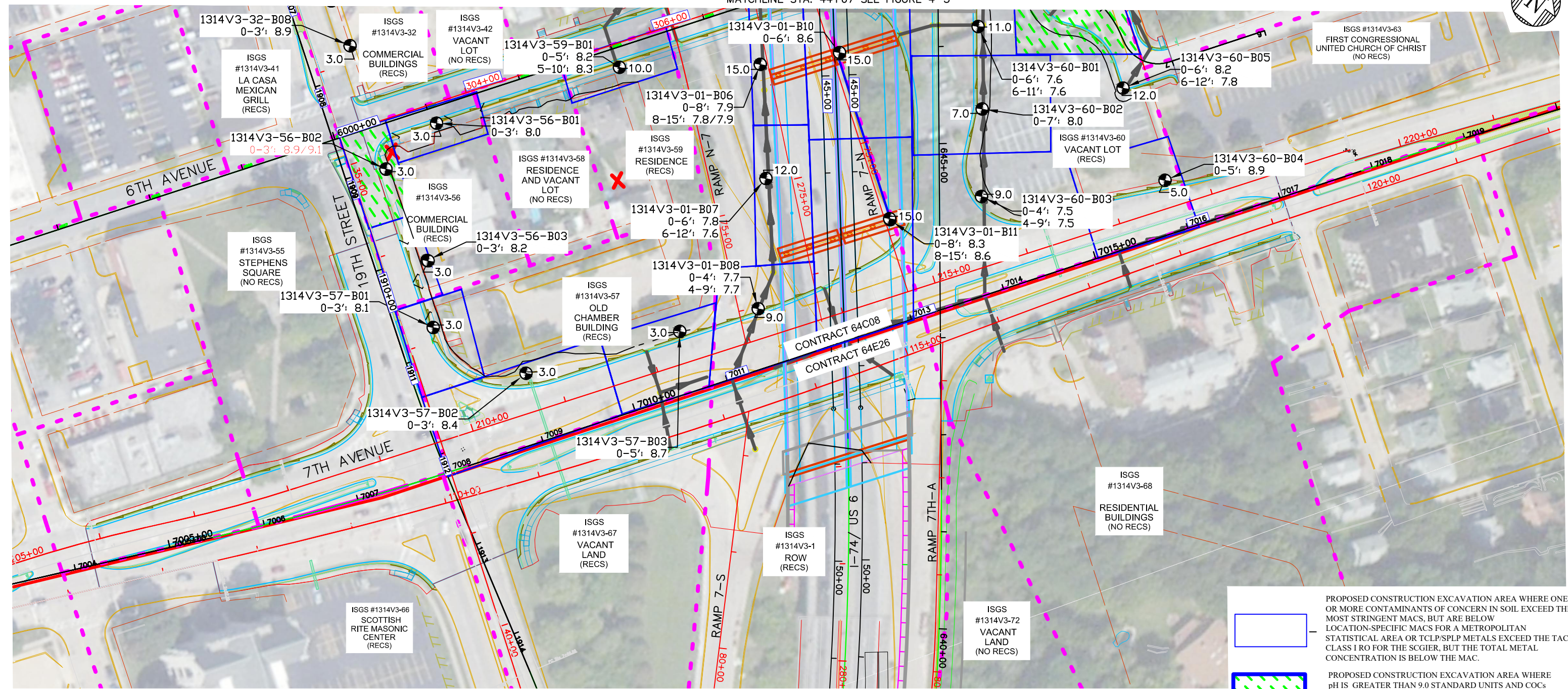
**LEGEND**

	- PROPOSED STORM SEWER		- PROPOSED CULVERT		- PROPOSED TEMPORARY EASEMENT		- PROPOSED ROAD		- APPROXIMATE LOCATION OF POSSIBLE USTs.
	- EXISTING STORM SEWER		- PROPOSED BRIDGE STRUCTURE		- PROPOSED ROW		- EXISTING ROAD		- APPROXIMATE HAA BOUNDARY
	- EXISTING MANHOLE		- PROPOSED RETAINING WALL		- EXISTING ROW		- PROPOSED CENTERLINES		SCALE IN FEET
	- PROPOSED MANHOLE		- PROPOSED ANCHOR SLAB		- LIMITS OF CONSTRUCTION		- EXISTING CENTERLINES	0	100
	- EXISTING CATCH BASIN		- PROPOSED UNDERDRAIN		- APPROXIMATE PESA SITE BOUNDARY		- PROPOSED BIKE PATH	200	300
	- PROPOSED CATCH BASIN		- PROPOSED DITCH		- PROPOSED BORING LOCATION (DEPTH IN FEET)		- TEMPORARY MONITORING WELL (DEPTH IN FEET)		

NOTE: CONTAMINANTS OF CONCERN ARE SUMMARIZED ON FIGURES 4-12 THROUGH 4-15

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS	 Global Environmental Specialists	INVESTIGATION DATA SUMMARY	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/16/2017	FIGURE
REVISION 1	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		FAI 74 - INTERSTATE 74 (CONTRACT # 64C08)	IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: 1" = 100'	4-3

MATCHLINE STA. 44+67 SEE FIGURE 4-3



**LEGEND**

- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- PROPOSED CULVERT
- PROPOSED BRIDGE STRUCTURE
- PROPOSED RETAINING WALL
- PROPOSED ANCHOR SLAB
- PROPOSED UNDERDRAIN
- PROPOSED DITCH
- PROPOSED TEMPORARY EASEMENT
- PROPOSED ROW
- EXISTING ROW
- LIMITS OF CONSTRUCTION
- APPROXIMATE PESA SITE BOUNDARY
- PROPOSED BORING LOCATION (DEPTH IN FEET)
- PROPOSED ROAD
- EXISTING ROAD
- PROPOSED CENTERLINES
- EXISTING CENTERLINES
- PROPOSED BIKE PATH
- TEMPORARY MONITORING WELL (DEPTH IN FEET)
- APPROXIMATE LOCATION OF POSSIBLE USTs
- CONTRACT BOUNDARY

- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS, BUT ARE BELOW LOCATION-SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEED THE TACO CLASS I RO FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE pH IS GREATER THAN 9.0 STANDARD UNITS AND COCs WERE DETECTED ABOVE THE MOST STRINGENT MACS ONLY, OR TCLP/SPLP METALS WERE DETECTED ABOVE THE TACO CLASS I SCGIER.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE APPLICABLE REFERENCE CONCENTRATIONS

SCALE IN FEET



NOTE: CONTAMINANTS OF CONCERN ARE SUMMARIZED ON FIGURES 4-16 AND 4-17

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS	 Global Environmental Specialists	<b>INVESTIGATION DATA SUMMARY</b> FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) STA. 44+67 TO STA. 50+00	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/16/2017	FIGURE
REVISION 1	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		STA. 44+67 TO STA. 50+00	IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: 1" = 100'	4-4

**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-1 (IDOT ROW)								ISGS #1314V3-2 (Mississippi River)				Comparison Criteria							
	1314V3-01-B01			1314V3-01-B02	1314V3-01-B03	1314V3-01-B04		1314V3-01-B05		1314V3-02-B01				MACs			TACO			
BORING	1314V3-01-B01 (0-6)	1314V3-01-B01 (6-11)	1314V3-01-G01	1314V3-01-B02 (0-8)	1314V3-01-B03 (0-8)	1314V3-01-B04 (0-6)	1314V3-01-B04 (6-12)	1314V3-01-B05 (0-6)	1314V3-01-B05 (6-12)	1314V3-02-B01 (0-5)	1314V3-02-B01 (5-10)	1314V3-02-G01	1314V3-02-G01D	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater
SAMPLE	Soil	Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water								
MATRIX	Soil	Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water								
DEPTH (feet)	0-6	6-11	11	0-8	0-8	0-6	6-12	0-6	6-12	0-5	5-10	11								
pH	8.2	7.7	--	7.7	9.4 #	9.3 #	7.7	8.5	8.2	11.6 #	9.8 #	--								
PID (meter units)	0	--	--	0	0	0	0	0	0	0	0	--								
<b>SVOCs (soil: mg/kg, water: mg/L)</b>																				
Benzo(a)anthracene	0.077	ND U	ND U	0.012 J	0.045	1.4 †*	ND U	0.51	0.47	ND U	0.3	ND U	ND U	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo(a)pyrene	0.069	ND U	ND U	0.015 J	0.05	1.2 †	ND U	0.43 †	0.37 †	ND U	0.31 †	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo(b)fluoranthene	0.09	ND U	ND U	ND U	0.065	1.8 †*	0.01 J	0.54	0.47	ND U	0.39	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	ND U	0.14 †	ND U	0.043	0.038 J	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
<b>Inorganics (soil: mg/kg, water: mg/L)</b>																				
Cadmium	1.9	0.15	ND U	0.24	0.58	0.51	0.23	0.49	0.26	0.14	0.31	0.0012	0.0011	5.2	--	--	78	200	--	0.005
Iron	18,000 †m	13,000	29 W1,2	15,000	16,000 †m	29,000 †m	17,000 †m	33,000 †m	20,000 †m	7,700	14,000	15 W1,2	14 W1,2	15,000	15,900	--	--	--	--	5
Lead	78	13	0.004	21	45	51	16	41	57	2.5	31	0.51 W1,2	0.48 W1,2	107	--	--	400	700	--	0.0075
Manganese	430	300	3 W1	390	760 †m	380	710 †m	370	400	830 †m	600	0.39 W1	0.35 W1	630	636	--	1,600	4,100	--	0.15
<b>TCLP Metals (mg/L)</b>																				
Cadmium	ND U	0.0021 J	NA	ND U	ND U	0.0037 J	0.0024 J	0.0079 L	0.0022 J	ND U	ND U	NA	NA	--	--	--	--	--	0.005	--
Iron	ND U	ND U	NA	ND U	ND U	ND U	ND U	ND U	0.3 J	ND U	2	NA	NA	--	--	--	--	--	5	--
Lead	0.014 L	ND U	NA	ND U	0.012 L	0.014 L	0.019 L	0.025 L	0.025 L	ND U	ND U	NA	NA	--	--	--	--	--	0.0075	--
Manganese	3.3 L	5.3 L	NA	6.2 L	6.2 L	4.8 L	4.3 L	8 L	6.5 L	ND U	9.6 L	NA	NA	--	--	--	--	--	0.15	--
<b>SPLP Metals (mg/L)</b>																				
Cadmium	NA	NA	NA	NA	NA	NA	NA	ND U	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	0.014 L	NA	NA	NA	ND U	0.16 L	0.058 L	0.21 L	0.18 L	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.02 J	0.077	NA	0.27 L	0.012 J	0.94 L	1.2 L	1.2 L	0.99 L	NA	0.45 L	NA	NA	--	--	--	--	--	0.15	--

**Key to Data Table**

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

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area.

TACO = Tiered Approach to Corrective Action Objectives.

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route.

SPLP = Synthetic Precipitation Leaching Procedure.

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

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

ND = Not detected.

NA = Not analyzed.

J = Estimated value.

U = Analyte was analyzed for but not detected.

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

† = Concentration exceeds the most stringent MAC.

m = Concentration exceeds the MAC for an MSA.

\* = Concentration exceeds the MAC for Chicago corporate limits.

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

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

Orange = Concentration exceeds the most stringent MAC and the MAC for Chicago.

Grey = Concentration exceeds applicable comparison criteria.

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		CONTAMINANTS OF CONCERN		PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-5
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-01 AND 1314V3-02		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A	

CONTAMINANTS OF CONCERN																				
SITE	ISGS #1314V3-2 (Mississippi River)			ISGS #1314V3-4 (City of Moline, Water Department)			ISGS #1314V3-5 (Industrial Building)	ISGS #1314V3-6 (Vacant Land)					Comparison Criteria							
	BORING	1314V3-02-B02			1314V3-04-B01			1314V3-05-B01	1314V3-06-B01	1314V3-06-B02	1314V3-06-B03	1314V3-06-B04	1314V3-06-B05	MACs			TACO			
SAMPLE	1314V3-02-B02 (0-6)	1314V3-02-B02 (6-12)	1314V3-02-B02 (6-12)D	1314V3-04-B01 (0-6)	1314V3-04-B01 (6-11)	1314V3-04-G01	1314V3-05-B01 (0-5)	1314V3-06-B01 (0-8)	1314V3-06-B02 (0-8)	1314V3-06-B03 (0-4)	1314V3-06-B04 (0-5.2)	1314V3-06-B05 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
MATRIX	Soil	Soil	Soil	Soil	Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-6	6-12	6-12	0-6	6-11	11	0-5	0-8	0-8	0-4	0-5.2	0-8								
pH	9.1 #	9.1 #	8.9	8	8	--	8.1	8.9	8.6	8.6	8.3	8								
PID (meter units)	0			0			0	0	0	0	0	0								
<b>SVOCs (soil: mg/kg, water: mg/L)</b>																				
Benzo(a)anthracene	0.021 J	0.0089 J	ND U	0.11	0.25	0.00076 W1,2	0.024 J	0.2	1 †	0.014 J	0.23	0.052	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo(a)pyrene	0.034 J	0.0091 J	ND U	0.097 †	0.23 †	0.00086 W1	0.024 J	0.25 †	1.3 †	0.019 J	0.24 †	0.067	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo(b)fluoranthene	0.048	0.021 J	0.013 J	0.16	0.37	0.0011 W1,2	0.036	0.37	1.3 †	0.031 J	0.4	0.12	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo(k)fluoranthene	0.022 J	ND U	ND U	0.055	0.12	0.00042 W1	0.015 J	0.14	0.5	0.014 J	0.13	0.037 J	9	--	--	9	1,700	--	0.00017	
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	ND U	0.00012	ND U	0.029 J	0.11 †	ND U	0.03 J	0.016 J	0.09	0.42	0.2	0.42	17	--	0.0003	
Indeno(1,2,3-cd)pyrene	0.027 J	ND U	ND U	0.034 J	0.059	0.00047 W1	0.013 J	0.084	0.27	ND U	0.099	0.045	0.9	1.6	0.9	1.6	170	--	0.00043	
<b>Inorganics (soil: mg/kg, water: mg/L)</b>																				
Arsenic	6.7	4.5	3	4.9	8.7	0.011	5.6	14 †m	7.7	4.7	4.3	2.4	11.3	13	--	13	61	--	0.05	
Boron	1.5 J	1.7 J	2 J	12	43 †	1.1	2 J	7.1 J	11 J	2.2 J	4.4	5.6	40	--	--	16,000	41,000	--	2	
Cadmium	0.39	0.27	0.25	0.65	0.82	0.00024 J	ND U	0.42 J	0.59	0.21	0.42	0.26	5.2	--	--	78	200	--	0.005	
Chromium	35 †	15	17	12	16	0.012	11	94 †	27 †	13	16	13	21	--	--	230	690	--	0.1	
Iron	21,000 †m	15,000	12,000	21,000 †m	27,000 †m	28 W1,2	19,000 †m	95,000 †m	37,000 †m	13,000	13,000	11,000	15,000	15,900	--	--	--	--	5	
Lead	22	20	20	96	140 †	0.06 W1	13	110 †	82	6.9	83	16	107	--	--	400	700	--	0.0075	
Manganese	340	230	250	580	430	2 W1	640 †m	850 †m	660 †m	290	390	410	630	636	--	1,600	4,100	--	0.15	
Nickel	61	14	14	12	16	0.01	20	310 †	49	16	17	23	100	--	--	1,600	4,100	--	0.1	
Selenium	ND U	ND U	ND U	0.36 J	0.93	0.002 J	ND U	2.2 J †	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Thallium	0.68	0.61	0.52 J	1.1	ND U	ND U	ND U	2.8 †	1.5 J	0.62	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
<b>TCLP Metals (mg/L)</b>																				
Boron	ND U	ND U	ND U	0.22 J	0.43 J	NA	ND U	0.07 J	0.077 J	ND U	0.062 J	0.17 J	--	--	--	--	--	2	--	
Cadmium	0.0045 J	0.0074 L	0.004 J	ND U	ND U	NA	ND U	ND U	0.0053 L	0.0029 J	ND U	ND U	--	--	--	--	--	0.005	--	
Chromium	ND U	ND U	ND U	ND U	ND U	NA	ND U	0.014 J	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--	
Iron	ND U	ND U	ND U	ND U	1.4	NA	ND U	86 L	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	0.017 L	0.013 L	NA	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	2.3 L	4.3 L	3.4 L	3.4 L	4.3 L	NA	3 L	9.3 L	1.1 L	0.81 L	1.6 L	10 L	--	--	--	--	--	0.15	--	
Nickel	0.24 L	0.063	0.038	0.016 J	0.012 J	NA	ND U	1.2 L	0.022 J	0.021 J	ND U	0.03	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	ND U	NA	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Thallium	ND U	ND U	ND U	ND U	ND U	NA	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002	--	
<b>SPLP Metals (mg/L)</b>																				
Cadmium	NA	ND U	NA	NA	NA	NA	NA	NA	ND U	NA	NA	NA	--	--	--	--	--	0.005	--	
Iron	NA	NA	NA	NA	NA	NA	NA	11 L	NA	NA	NA	NA	--	--	--	--	--	5	--	
Lead	NA	NA	NA	0.036 L	0.052 L	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	0.11	0.28 L	0.28 L	0.085	0.16 L	NA	ND U	0.059	0.17 L	0.17 L	0.29 L	0.44 L	--	--	--	--	--	0.15	--	
Nickel	0.027	NA	NA	NA	NA	NA	NA	0.01 J	NA	NA	NA	NA	--	--	--	--	--	0.1	--	

**Key to Data Table**

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations.  
 mg/kg = Milligrams per kilogram.  
 mg/L = Milligrams per liter.  
 MSA = Metropolitan Statistical Area.  
 TACO = Tiered Approach to Corrective Action Objectives.  
 TCLP = Toxicity Characteristic Leaching Procedure.  
 SCGIE = Soil Component of the Groundwater Ingestion Exposure Route.  
 R = Synthetic Precipitation Leaching Procedure.  
 ND = Not detected.  
 NA = Not analyzed.

J = Estimated value.  
 U = Analyte was analyzed for but not detected.  
 # = pH is less than 6.25 or greater than 9.0 standard units.  
 † = Concentration exceeds the most stringent MAC.  
 m = Concentration exceeds the MAC for an MSA.  
 \* = Concentration exceeds the MAC for Chicago corporate limits.  
 r = Concentration exceeds the TACO Tier 1 RO for Residential Exposure.  
 W1 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater.  
 W1,2 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 and Class 2 groundwater.





☐ = Concentration exceeds the most Stringent MAC, but is below the MAC for an MSA.  
 ☐ = Concentration exceeds applicable comparison criteria.


CAD FILE EE9 W046 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		<b>CONTAMINANTS OF CONCERN</b> FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-02, -04, -05, AND -06	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-6
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT			IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A	

**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-6 (Vacant Land)		ISGS #1314V3-7 (River Stone Moline Yard)					ISGS #1314V3-8 (Commercial Building)		Comparison Criteria							
	1314V3-06-B10		1314V3-07-B01		1314V3-07-B02	1314V3-07-B03	1314V3-07-B04		1314V3-08-B01		MACs			TACO			
BORING	1314V3-06-B10		1314V3-07-B01		1314V3-07-B02	1314V3-07-B03	1314V3-07-B04		1314V3-08-B01		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater
SAMPLE	1314V3-06-B10 (0-6)	1314V3-06-B10 (6-11)	1314V3-07-B01 (0-6)	1314V3-07-G01	1314V3-07-B02 (0-5)	1314V3-07-B03 (0-5.5)	1314V3-07-B04 (0-5)	1314V3-07-B04 (5-11)	1314V3-08-B01 (0-6)	1314V3-08-B01 (6-12)							
MATRIX	Soil	Soil	Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-6	6-11	0-6	6	0-5	0-5.5	0-5	5-11	0-6	6-12							
pH	8.3	8.4	9.6 #	--	8.2	8	8	8.2	7.8	7.7							
PID (meter units)	0		0		3.6 - 33.7**	0	0		0								
<b>SVOCs (soil: mg/kg, water: mg/L)</b>																	
Benzo(a)anthracene	0.15	0.14	2.2 †mr*	0.00039 W1	1.1 †	4.1 †mr*	0.92 †	ND U	0.24	ND U	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo(a)pyrene	0.17 †	0.1 †	5 †mr*	0.00068 W1	1.1 †	4.1 †mr*	2.4 †mr*	ND U	0.24 †	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo(b)fluoranthene	0.23 J	0.15	5.8 †mr*	0.00078 W1	1.5 †	7.5 †mr*	3.6 †mr*	ND U	0.33	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo(k)fluoranthene	0.1 J	0.066	2.4	0.00029 W1	0.69	2.7	1.3	ND U	0.15	ND U	9	--	--	9	1,700	--	0.00017
Dibenz(a,h)anthracene	0.03 J	0.022 J	0.91 †mr*	0.00014 J	0.22 J †*	0.61 †mr*	0.64 †mr*	ND U	0.027 J	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Indeno(1,2,3-cd)pyrene	0.093 J	0.052	3.5 †mr*	0.00051 W1	0.52	1.6 †*	1.7 †mr*	ND U	0.094 J	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
<b>Inorganics (soil: mg/kg, water: mg/L)</b>																	
Antimony	ND U	ND U	0.49 J	ND U	ND U	ND U	ND U	ND U	0.9 J	0.53 J	5	--	--	31	82	--	0.006
Arsenic	2.1	3.8	4	0.0059	9.5	28 †mr	6.7	2	2.8	11	11.3	13	--	13	61	--	0.05
Boron	3.4	0.91 J	26	1.5	24	280 †	60 †	2.8 J	13	2.3 J	40	--	--	16,000	41,000	--	2
Cadmium	0.17	0.085 J	0.31	ND U	0.3 J	2.4	1.5	0.079 J	0.27	0.89	5.2	--	--	78	200	--	0.005
Chromium	7.7	7.1	21	0.0022 J	14	44 †	12	7.3	10	12	21	--	--	230	690	--	0.1
Iron	8,800	8,500	14,000	21 W1,2	50,000 †m	190,000 †m	29,000 †m	5,900	13,000 J	17,000 †m	15,000	15,900	--	--	--	--	5
Lead	18	2.3	44	0.011 W1	44	210 †	53	5.9	38 J	4	107	--	--	400	700	--	0.0075
Manganese	120	190	510	0.55 W1	780 †m	1,300 †m	420	240	230	98	630	636	--	1,600	4,100	--	0.15
Selenium	ND U	0.28 J	0.79	0.0015 J	ND U	4.9 †	ND U	ND U	ND U	0.33 J	1.3	--	--	390	1,000	--	0.05
<b>TCLP Metals (mg/L)</b>																	
Antimony	ND U	ND U	ND U	NA	ND U	ND U	ND U	ND U	0.0083 L	ND U	--	--	--	--	--	0.006	--
Boron	ND U	ND U	0.53	NA	0.23 J	0.65	0.19 J	0.15 J	0.3 J	0.071 J	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	NA	ND U	0.016 L	0.0081 L	ND U	ND U	0.01 L	--	--	--	--	--	0.005	--
Chromium	ND U	ND U	0.055	NA	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--
Iron	ND U	ND U	ND U	NA	ND U	9.4 L	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	NA	ND U	0.13 L	ND U	ND U	0.016 L	ND U	--	--	--	--	--	0.0075	--
Manganese	0.76 L	1.8 L	ND U	NA	6.1 L	8.3 L	1.5 L	10 L	2.4 L	0.75 L	--	--	--	--	--	0.15	--
Selenium	ND U	ND U	ND U	NA	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
<b>SPLP Metals (mg/L)</b>																	
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	ND U	NA	--	--	--	--	--	0.006	--
Cadmium	NA	NA	NA	NA	NA	ND U	ND U	NA	NA	0.0034 J	--	--	--	--	--	0.005	--
Iron	NA	NA	NA	NA	NA	ND U	NA	NA	NA	NA	--	--	--	--	--	5	--
Lead	NA	NA	NA	NA	NA	ND U	NA	NA	0.038 L	NA	--	--	--	--	--	0.0075	--
Manganese	0.11	0.091	NA	NA	0.01 J	ND U	0.1	0.82 L	0.12	0.13	--	--	--	--	--	0.15	--

**Key to Data Table**

- |  |   |   |
|--|---|---|
| MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations.         | ND = Not detected.  |  = Headspace reading exceeds background levels                             |
| mg/kg = Milligrams per kilogram.   | NA = Not analyzed.  |  = Concentration exceeds the most Stringent MAC, but is below the MSA MAC. |
| mg/L = Milligrams per liter.   | J = Estimated value.  |  = Concentration exceeds the most stringent MAC and the Chicago MAC.       |
| MSA = Metropolitan Statistical Area.   | U = Analyte was analyzed for but not detected.                            |  = Concentration exceeds applicable comparison criteria.                   |
| TACO = Tiered Approach to Corrective Action Objectives.  | # = pH is less than 6.25 or greater than 9.0 standard units.              |   |
| TCLP = Toxicity Characteristic Leaching Procedure.   | ** = Headspace reading is above 1.0 photoionization detector (PID) units. |   |
| SCGIER = Soil Component of the Groundwater Ingestion Exposure Route.   | † = Concentration exceeds the most stringent MAC.                         |   |
| R =  | m = Concentration exceeds the MAC for an MSA.                             |   |
| SPLP = Synthetic Precipitation Leaching Procedure.   | * = Concentration exceeds the MAC for Chicago corporate limits.           |   |
| W1 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater.               | r = Concentration exceeds the TACO Tier 1 RO for Residential Exposure.    |   |
| W1,2 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 and Class 2 groundwater. | L = The detected concentration exceeds the TACO Tier 1 RO for the         |   |

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS	 <p align="center"><b>CONTAMINANTS OF CONCERN</b> FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-06, -07, AND -08</p>	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-7
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A	



**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-1 (IDOT ROW)		ISGS #1314V3-5 (Industrial Building)			ISGS #1314V3-6 (Vacant Land)						Comparison Criteria						
	1314V3-01-B09		1314V3-05-B02		1314V3-05-B03	1314V3-06-B06	1314V3-06-B07	1314V3-06-B08		1314V3-06-B09	1314V3-06-B11		MACs			TACO		
BORING	1314V3-01-B09 (0-6)	1314V3-01-B09 (6-11.6)	1314V3-05-B02 (0-6)	1314V3-05-B02 (6-10.6)	1314V3-05-B03 (0-5.9)	1314V3-06-B06 (0-4)	1314V3-06-B07 (0-4.3)	1314V3-06-B08 (0-5)	1314V3-06-B08 (5-10)	1314V3-06-B09 (0-2)	1314V3-06-B11 (0-6)	1314V3-06-B11 (6-10.7)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE																		
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-11.6	0-6	6-10.6	0-5.9	0-4	0-4.3	0-5	5-10	0-2	0-6	6-10.7						
pH	8.6	8	8.2	7	8.2	8.3	8	8.2	8	8	7.8	8.2						
PID (meter units)	0		0		0	0	0	0		0	0							

SVOCs (soil: mg/kg, water: mg/L)																		
Benzo(a)anthracene	ND U	0.069	0.042	ND U	0.96 †	0.22	3.2 †mr*	0.64	0.12	0.5	ND U	0.014 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	0.061	0.041	ND U	0.92 †	0.34 †	3.5 †mr*	0.81 †	0.13 †	0.73 †	ND U	0.015 J	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	0.1	0.058	ND U	1.3 †	0.58	4.4 †mr*	1.2 †	0.22	1.2 †	ND U	0.019 J	0.9	2.1	1.5	2.1	170	--
Carbazole	ND U	ND U	ND U	ND U	0.13 J	ND U	0.71 †	0.18	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND UJ	0.1 †	0.047	0.36 †	0.11 J †	ND U	0.069 J	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Indeno(1,2,3-cd)pyrene	ND U	0.027 J	0.024 J	ND UJ	0.3	0.14	1 †	0.35	0.048	0.34	ND U	ND U	0.9	1.6	0.9	1.6	170	--

Inorganics (soil: mg/kg, water: mg/L)																		
Cadmium	0.11	0.35	ND U	ND U	0.46	1.4	1.2	1.1	12 †	0.44 J	0.098 J	0.15	5.2	--	--	78	200	--
Chromium	10	12	11	14	14	42 †	35 †	24 †	40 †	21	7.5	8.5	21	--	--	230	690	--
Iron	15,000	14,000	12,000	19,000 †m	16,000 †m	29,000 †m	78,000 †m	19,000 †m	36,000 †m	17,000 †m	7,900	8,100	15,000	15,900	--	--	--	--
Lead	8.5	14	23 J	9.8	100	230 †	46	110 †	570 †r	39	3.7	7	107	--	--	400	700	--
Manganese	340	290	430 J	160	650 †m	510	440	570	450	440	180	410	630	636	--	1,600	4,100	--
Nickel	13	13	15	20	19	68	25	62	38	49	8.8	13	100	--	--	1,600	4,100	--
Zinc	34	66	67 J	70	160	200	250	160	2,100	72	21	24	5,100	--	--	23,000	61,000	--

TCLP Metals (mg/L)																		
Cadmium	0.0034 J	0.0046 J	ND U	ND U	0.0022 J	0.0026 J	0.016 L	0.017 L	0.1 L	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.6	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.008 L	ND U	ND U	0.013 L	ND U	ND U	ND U	0.72 L	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	7 L	8 L	0.99 L	1.4 L	1.2 L	0.24 L	6.2 L	6.5 L	4.7 L	0.92 L	0.095	0.74 L	--	--	--	--	--	0.15
Nickel	0.032	0.025	ND U	0.019 J	ND U	0.017 J	0.21 J L	0.22 L	0.061	0.05	ND U	0.02 J	--	--	--	--	--	0.1
Zinc	0.02 J	0.19 J	0.076 J	ND U	0.2 J	ND U	ND U	ND U	12 L	ND U	ND U	ND U	--	--	--	--	--	5

SPLP Metals (mg/L)																		
Cadmium	NA	NA	NA	NA	NA	NA	ND U	ND U	0.0029 J	NA	NA	NA	--	--	--	--	--	0.005
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	5
Lead	NA	0.028 L	NA	NA	0.12 L	NA	NA	NA	0.25 L	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.19 L	0.32 L	0.21 L	0.52 L	0.39 L	0.013 J	0.26 L	0.57 L	0.13	0.17 L	NA	0.28 L	--	--	--	--	--	0.15
Nickel	NA	NA	NA	NA	NA	NA	0.015 J	0.079	NA	NA	NA	NA	--	--	--	--	--	0.1
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	0.52	NA	NA	NA	--	--	--	--	--	5

**Key to Data Table**

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

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area

TACO = Tiered Approach to Corrective Action Objectives

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure.

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

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

ND = Not detected.

NA = Not analyzed.

J = Estimated value.

U = Analyte was analyzed for but not detected.

† = Concentration exceeds the most stringent MAC.

m = Concentration exceeds the MAC for an MSA.

\* = Concentration exceeds the MAC for Chicago corporate limits.

r = Concentration exceeds the TACO Tier 1 RO for Residential Exposure.

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

█ = Concentration exceeds applicable comparison criteria.

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		<b>CONTAMINANTS OF CONCERN</b> <b>FAI 74 - INTERSTATE 74 (CONTRACT # 64C08)</b> <b>ISGS 1314V3-01, -05, AND -06</b>	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-8
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A		

**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-11 (Vacant Land)				ISGS #1314V3-17 (Parking Lot)				Comparison Criteria							
	1314V3-11-B01	1314V3-11-B02	1314V3-11-B03		1314V3-17-B01	1314V3-17-B02	1314V3-17-B03		MACs			TACO				
BORING																
SAMPLE	1314V3-11-B01 (0-1)	1314V3-11-B02 (0-1)	1314V3-11-B03 (0-1)	1314V3-11-B03 (0-1)D	1314V3-17-B01 (0-7)	1314V3-17-B02 (0-7)	1314V3-17-B03 (0-7)	1314V3-17-B03 (0-7)D								
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-1	0-1	0-1	0-1	0-7	0-7	0-7	0-7								
pH	8.4	8.4	8.5	8.5	7.9	7.1	7.6	7.8								
PID (meter units)	0	0	0	0	0	0	0	0	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER		
<b>SVOCs mg/kg</b>																
Benzo(a)anthracene	0.055	0.22	0.4	0.35	0.059	1.1 †	ND U	ND U	0.9	1.8	1.1	1.8	170	--		
Benzo(a)pyrene	0.074	0.29 †	0.51 †	0.42 †	0.075	1.1 †	ND U	ND U	0.09	2.1	1.3	2.1	17	--		
Benzo(b)fluoranthene	0.11	0.44	0.67	0.59	0.11	1.7 †	ND U	ND U	0.9	2.1	1.5	2.1	170	--		
<b>Inorganics (mg/kg)</b>																
Arsenic	3.9	4.8	4.3	4.1	5.6	15 †m	5.5	5	11.3	13	--	13	61	--		
Iron	12,000 J	14,000	15,000	13,000	14,000	32,000 †m	11,000	11,000	15,000	15,900	--	--	--	--		
Lead	26 J	130 †	73	65	41	360 †	7.5	7.5	107	--	--	400	700	--		
Manganese	410 J	580	440	460	460	370	290	190	630	636	--	1,600	4,100	--		
Selenium	0.28 J	ND U	ND U	0.3 J	ND U	3 †	ND U	ND U	1.3	--	--	390	1,000	--		
<b>TCLP Metals (mg/L)</b>																
Iron	ND U	ND U	ND U	ND U	ND U	1.2	ND U	ND U	--	--	--	--	--	--	5	
Lead	ND U	ND U	ND U	ND U	ND U	0.072 L	ND U	ND U	--	--	--	--	--	--	0.0075	
Manganese	0.9 L	0.97 L	0.46 L	0.61 L	5.4 L	2 L	0.56 L	0.58 L	--	--	--	--	--	--	0.15	
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	0.05	
<b>SPLP Metals (mg/L)</b>																
Lead	NA	NA	NA	NA	NA	0.29 L	NA	NA	--	--	--	--	--	--	0.0075	
Manganese	0.38 L	0.29 L	0.33 L	0.37 L	0.055	0.5 L	0.78 L	1.2 J L	--	--	--	--	--	--	0.15	

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

SITE	ISGS #1314V3-18 (Vacant Land)									Comparison Criteria						
	1314V3-18-B01			1314V3-18-B02			1314V3-18-B03		1314V3-18-B04		MACs			TACO		
BORING																
SAMPLE	1314V3-18-B01 (0-6)	1314V3-18-B01 (6-12)	1314V3-18-B01 (12-18)	1314V3-18-B02 (0-7)	1314V3-18-B02 (0-7)D	1314V3-18-B02 (7-13)	1314V3-18-B03 (0-6)	1314V3-18-B03 (6-12)	1314V3-18-B04 (0-5.3)							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-6	6-12	12-18	0-7	0-7	7-13	0-6	6-12	0-5.3							
pH	8.7	8.3	7.9	8	8	7.7	8.1	7.6	8.6							
PID (meter units)	0			0			0		0		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
<b>SVOCs (mg/kg)</b>																
Benzo(a)pyrene	0.052	0.034 J	0.026 J	ND U	0.011 J	0.094 †	0.011 J	ND U	0.094 †	0.09	2.1	1.3	2.1	17	--	
<b>Inorganics (mg/kg)</b>																
Iron	13,000	13,000	13,000	15,000	16,000 †m	15,000	13,000	11,000	12,000	15,000	15,900	--	--	--	--	
Manganese	370	320	290	290	310	390	360	280	220	630	636	--	1,600	4,100	--	
<b>TCLP Metals (mg/L)</b>																
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	
Manganese	1.5 L	6.3 L	7.8 L	0.66 L	0.55 L	0.26 L	0.36 L	0.81 L	2.4 L	--	--	--	--	--	0.15	
<b>SPLP Metals (mg/L)</b>																
Manganese	0.36 L	0.72 L	0.23 L	0.13	0.15	0.074	0.22 L	0.37 L	0.42 L	--	--	--	--	--	0.15	

**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-18 (Vacant Land)									ISGS #1314V3-21 (BNSF Railroad)				Comparison Criteria					
	1314V3-18-B05			1314V3-18-B06			1314V3-18-B07	1314V3-18-B08	1314V3-18-B09	1314V3-21-B01		1314V3-21-B02		MACs			TACO		
BORING	1314V3-18-B05 (0-8)	1314V3-18-B05 (8-12)	1314V3-18-B06 (0-6)	1314V3-18-B06 (6-12)	1314V3-18-B06 (12-17)	1314V3-18-B07 (0-8)	1314V3-18-B08 (0-4.4)	1314V3-18-B09 (0-8)	1314V3-21-B01 (0-5)	1314V3-21-B01 (5-10)	1314V3-21-B02 (0-6)	1314V3-21-B02 (0-6)D	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	8-12	0-6	6-12	12-17	0-8	0-4.4	0-8	0-5	5-10	0-6	0-6							
pH	8.1	8	8.4	7.9	8	8.5	8.4	7.6	7.5	7.8	7.7	7.7							
PID (meter units)	0			0			0	0	0	0		0							

SVOCs (mg/kg)																		
Benzo(a)anthracene	0.059	ND U	0.91 †	0.09	ND U	0.018 J	0.13	0.011 J	0.11	ND U	0.28	0.43	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.086	ND U	0.72 †	0.084	ND U	0.02 J	0.13 †	0.0093 J	0.13 †	ND U	0.36 †	0.5 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.16	ND U	0.94 †	0.14	ND U	0.026 J	0.22	ND U	0.2	ND U	0.61	0.8	0.9	2.1	1.5	2.1	170	--

Inorganics (mg/kg)																		
Antimony	0.48 J	0.41 J	0.54 J	0.62 J	0.27 J	0.27 J	0.44 J	ND U	2.2 J	0.32 J	4.2 J	2.9 J	5	--	--	31	82	--
Arsenic	3.2	4.8	5.6	7.3	2.5	3.5	2.3	220 †mrc	9	4.3	7.9	6.6	11.3	13	--	13	61	--
Boron	2.4 J	1.1 J	7.1	14	2 J	6.4	17	140 †	22	2.9	27	41 †	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	0.42	0.32	ND U	ND U	0.11	20 †	1.4	0.06 J	1.1	0.98	5.2	--	--	78	200	--
Iron	12,000	12,000	13,000	20,000 †m	10,000	12,000	11,000	20,000 †m	48,000 †m	12,000	40,000 †m	39,000 †m	15,000	15,900	--	--	--	--
Lead	18	2.8	23	39	6.6	16	9.2	13	82	5.6	140 †	150 †	107	--	--	400	700	--
Manganese	270	300	280	220	210	320	110	350	500	480	440	410	630	636	--	1,600	4,100	--
Selenium	0.52	0.55	0.45	0.93	0.37 J	ND U	0.58	33 †	2.3 J †	0.33 J	2 J †	1.9 J †	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	89	140	560	270	110	480	340	33 J	470	170	900	790	--	--	--	--	--	--
Thallium	0.99	0.9	1	1	0.7	0.95	0.3 J	300 †rc	3 J †	1.1	2.8 J †	2.5 J	2.6	--	--	6.3	160	--

TCLP Metals (mg/L)																		
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.0098 L	ND U	--	--	--	--	--	0.006
Boron	ND U	ND U	ND U	ND U	ND U	0.082 J	0.1 J	0.062 J	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0042 J	0.0079 L	0.0023 J	ND U	0.0048 J	ND U	ND U	ND U	0.0022 J	0.003 J	--	--	--	--	--	0.005
Iron	ND U	ND U	ND U	0.84	ND U	ND U	ND U	ND U	0.31 J	ND U	ND U	0.33 J	--	--	--	--	--	5
Lead	0.0079 L	ND U	ND U	0.015 L	ND U	ND U	0.012 L	ND U	ND U	ND U	0.079 J L	0.0099 J L	--	--	--	--	--	0.0075
Manganese	0.44 L	2.8 L	1.4 L	9.1 L	14 L	2.9 L	4.7 L	1 L	1.4 L	ND U	3.1 L	2.3 L	--	--	--	--	--	0.15
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002

SPLP Metals (mg/L)																		
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0063 L	NA	--	--	--	--	--	0.006
Cadmium	NA	NA	NA	ND U	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	0.042 L	NA	NA	0.03 L	NA	NA	0.092 L	NA	NA	NA	0.071 L	0.097 L	--	--	--	--	--	0.0075
Manganese	0.5 L	0.025	0.34 L	0.14	0.17 L	ND U	0.65 L	0.83 L	0.32 L	NA	0.24 L	0.25 L	--	--	--	--	--	0.15

**Key to Data Table**

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

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area

TACO = Tiered Approach to Corrective Action Objectives

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure.

ND = Not detected.

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

NA = Not analyzed.

J = Estimated value.

U = Analyte was analyzed for but not detected.

† = Concentration exceeds the most stringent MAC.

m = Concentration exceeds the MAC for an MSA.

\* = Concentration exceeds the MAC for Chicago corporate limits.

r = Concentration exceeds the TACO Tier 1 RO for Residential Exposure.

c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.

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

☐ = Concentration exceeds applicable comparison criteria.

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		CONTAMINANTS OF CONCERN		PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-10
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-18 AND ISGS 1314V3-21		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A	

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-24 (John Deere)	ISGS #1314V3-25 (Sivyer Steel Corp.)												Comparison Criteria					
		1314V3-25-B01		1314V3-25-B02		1314V3-25-B04		1314V3-25-B05		1314V3-25-B06		1314V3-25-B07		MACs			TACO		
BORING	1314V3-24-B01	1314V3-25-B01		1314V3-25-B02		1314V3-25-B04		1314V3-25-B05		1314V3-25-B06		1314V3-25-B07		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-24-B01 (0-5.8)	1314V3-25-B01 (0-6)	1314V3-25-B01 (6-12)	1314V3-25-B02 (0-6)	1314V3-25-B02 (6-12)	1314V3-25-B04 (0-6)	1314V3-25-B04 (6-12)	1314V3-25-B05 (0-6)	1314V3-25-B05 (6-12)	1314V3-25-B06 (0-6)	1314V3-25-B06 (6-12)	1314V3-25-B07 (0-6)	1314V3-25-B07 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5.8	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12						
pH	7.8	7.5	8.2	8.5	8.1	8.1	8.1	7	7	7.4	8.3	7.4	8						
PID (meter units)	0	0	0	0	0	0	0	0	0	0	0	0	0						
<b>SVOCs (mg/kg)</b>																			
Benzo(a)anthracene	0.26	2 †mr*	ND U	ND U	ND U	0.016 J	0.015 J	0.41	0.0097 J	2.2 †mr*	ND U	0.022 J	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.25 †	3 †mr*	ND U	ND U	ND U	0.016 J	0.012 J	0.4 †	0.014 J	2.1 †*	ND U	0.027 J	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.44	4.8 †mr*	ND U	ND U	ND U	0.018 J	0.015 J	0.58	0.017 J	3.3 †mr*	ND U	0.029 J	ND U	0.9	2.1	1.5	2.1	170	--
Dibenz(a,h)anthracene	0.03 J	0.47 †mr*	ND U	ND U	ND U	ND U	ND U	0.08	ND U	0.4 †*	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Indeno(1,2,3-cd)pyrene	0.088	1.6 †*	ND U	ND U	ND U	0.011 J	ND U	0.24	ND U	1.3 †*	ND U	0.014 J	ND U	0.9	1.6	0.9	1.6	170	--
<b>Inorganics (mg/kg)</b>																			
Antimony	1.3 J	5.3 J †	ND U	ND U	ND U	1.1	ND U	4.1 J	ND U	18 †	ND U	ND U	ND U	5	--	--	31	82	--
Arsenic	4.1	11	2.7	1.8	3.7	5.5	6.2	9.6	4.8	19 †mr	2.3	4.2	3.6	11.3	13	--	13	61	--
Boron	110 †	50 †	ND U	ND U	ND U	ND U	ND U	14 J	ND U	61 †	ND U	ND U	ND U	40	--	--	16,000	41,000	--
Cadmium	ND U	2.2	0.18	0.2	0.13	0.49	0.29	1.2	0.19	3.7	0.32	0.18	0.12	5.2	--	--	78	200	--
Chromium	21	19	19	17	18	ND U	15	26 †	16	19	19	ND U	ND U	21	--	--	230	690	--
Iron	71,000 †m	47,000 †m	15,000	12,000	17,000 †m	18,000 †m	14,000	61,000 †m	14,000	61,000 †m	16,000 †m	13,000	14,000	15,000	15,900	--	--	--	--
Lead	52	270 †	9.4	160 †	11	63	11	710 †rc	10	1,900 †rc	12	13	9.3	107	--	--	400	700	--
Manganese	250	840 †m	440	190	250	340	570	680 †m	440	870 †m	610	400	250	630	636	--	1,600	4,100	--
Mercury	0.025	0.19	0.046	0.065	0.028	0.14	0.026	0.05	0.021	0.25	0.044	0.055	0.027	0.89	--	--	10	0.1	--
Selenium	2.4 †	2.4 J †	0.52 J	ND U	0.65	0.77	0.59 J	3.5 †	0.41 J	4.3 †	0.46 J	0.58 J	0.43 J	1.3	--	--	390	1,000	--
<b>TCLP Metals (mg/L)</b>																			
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.013 L	ND U	0.066 L	ND U	ND U	ND U	--	--	--	--	--	0.006
Boron	0.12 J	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	0.0068 L	ND U	ND U	0.0026 J	ND U	0.0022 J	0.0023 J	ND U	0.0066 L	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	ND U	ND U	ND U	0.34 J	ND U	0.43	0.28 J	0.2 J	ND U	0.24 J	ND U	--	--	--	--	--	5
Lead	ND U	0.016 L	ND U	0.028 L	ND U	ND U	ND U	0.12 L	ND U	0.96 L	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.6 L	1 L	4 L	0.13	2.9 L	0.1	0.34 L	0.4 L	0.011 J	1.1 L	0.15	0.17 L	0.67 L	--	--	--	--	--	0.15
Selenium	ND U	ND U	ND U	ND U	0.02 J	ND U	ND U	ND U	0.021 J	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
<b>SPLP Metals (mg/L)</b>																			
Antimony	NA	NA	NA	NA	NA	NA	NA	0.0083 L	NA	0.018 L	NA	NA	NA	--	--	--	--	--	0.006
Cadmium	NA	ND U	NA	NA	NA	NA	NA	NA	NA	ND U	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	0.089 L	NA	0.25 L	NA	NA	NA	0.34 L	NA	0.22 L	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	ND U	0.21 L	0.46 L	NA	0.29 L	NA	0.24 L	0.55 L	NA	0.066	0.4 L	0.16 L	0.15	--	--	--	--	--	0.15

Key to Data Table

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations  
 mg/kg = Milligrams per kilogram.  
 mg/L = Milligrams per liter.  
 MSA = Metropolitan Statistical Area  
 TACO = Tiered Approach to Corrective Action Objectives  
 TCLP = Toxicity Characteristic Leaching Procedure.  
 SCGIER = Soil Component of the Groundwater Ingestion Exposure Route  
 SPLP = Synthetic Precipitation Leaching Procedure.  
 ND = Not detected.  
 † = Concentration exceeds the most Stringent MAC, but is below the MAC for an MSA.  
 †\* = Concentration exceeds the most stringent MAC and the MAC for Chicago.

NA = Not analyzed.

J = Estimated value.  
 U = Analyte was analyzed for but not detected.  
 # = pH is less than 6.25 or greater than 9.0 standard units.  
 † = Concentration exceeds the most stringent MAC.  
 m = Concentration exceeds the MAC for an MSA.  
 \* = Concentration exceeds the MAC for Chicago corporate limits.  
 r = Concentration exceeds the TACO Tier 1 RO for Residential Exposure.  
 c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.  
 L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.

█ = Concentration exceeds applicable comparison criteria.

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		CONTAMINANTS OF CONCERN FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-24 AND 1314V3-25	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-11
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT			IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A	

**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-24 (John Deere)											Comparison Criteria					
	1314V3-24-B02		1314V3-24-B03		1314V3-24-B04			1314V3-24-B05		1314V3-24-B06	1314V3-24-B07	MACs			TACO		
BORING	1314V3-24-B02 (0-5)	1314V3-24-B02 (5-10)	1314V3-24-B03 (0-5)	1314V3-24-B03 (5-10)	1314V3-24-B04 (0-5)	1314V3-24-B04 (5-10)	1314V3-24-B04 (5-10)D	1314V3-24-B05 (0-5)	1314V3-24-B05 (5-10)	1314V3-24-B06 (0-4)	1314V3-24-B07 (0-5)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
MATRIX	0-5	5-10	0-5	5-10	0-5	5-10	5-10	0-5	5-10	0-4	0-5						
DEPTH (feet)	8.1	7.9	8.2	8.1	8.3	8.5	8.5	8.3	7.6	9	8.9						
pH	0		0		0			0		0	0						
PID (meter units)																	
<b>SVOCs (mg/kg)</b>																	
Benzo(a)anthracene	0.13	ND U	0.051	ND U	1.1 †	ND U	ND U	0.27	ND U	0.035 J	0.044	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.21 †	ND U	0.058	ND U	1.1 †	ND U	ND U	0.24 †	ND U	0.044	0.047	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.31	ND U	0.091	ND U	1.5 †	ND U	ND U	0.34	ND U	0.082	0.066	0.9	2.1	1.5	2.1	170	--
Dibenz(a,h)anthracene	0.047	ND U	ND U	ND U	0.11 †	ND U	ND U	0.03 J	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
<b>Inorganics (mg/kg)</b>																	
Antimony	18 †	0.35 J	5	0.28 J	2.4 J	0.32 J	0.28 J	9.5 †	ND U	ND U	2.7	5	--	--	31	82	--
Arsenic	32 †m	4.2	10	4.3	4.6	6.4	4.2	9	6.2	5.8	5.2	11.3	13	--	13	61	--
Chromium	24 †	12	15	9.7	17	12	12	11	15	11	12	21	--	--	230	690	--
Iron	150,000 †m	12,000	58,000 †m	10,000	27,000 †m	14,000	13,000	29,000 †m	15,000	12,000	18,000 †m	15,000	15,900	--	--	--	--
Lead	690 †r	7.8	220 †	7.2	110 †	10	8.8	220 †	10	13	120 †	107	--	--	400	700	--
Manganese	830 †m	280	580	330	280	1,000 J †m	300 J	290	520	860 †m	270	630	636	--	1,600	4,100	--
Selenium	2.6 †	0.32 J	1.4 J †	ND U	ND U	0.39 J	ND U	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--
<b>TCLP Metals (mg/L)</b>																	
Antimony	0.032 L	ND U	ND U	ND U	0.0091 L	ND U	ND U	0.0075 L	ND U	ND U	ND U	--	--	--	--	--	0.006
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	0.12 L	ND U	0.011 L	ND U	0.028 L	ND U	ND U	0.021 L	ND U	ND U	0.03 L	--	--	--	--	--	0.0075
Manganese	3.9 L	0.4 L	0.16 L	0.41 L	2.5 L	0.32 L	0.33 L	0.99 L	0.023 J	0.73 L	1.1 L	--	--	--	--	--	0.15
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
<b>SPLP Metals (mg/L)</b>																	
Antimony	0.019 L	NA	NA	NA	0.011 L	NA	NA	0.017 L	NA	NA	NA	--	--	--	--	--	0.006
Lead	0.043 L	NA	0.088 L	NA	0.11 L	NA	NA	0.15 L	NA	NA	0.17 L	--	--	--	--	--	0.0075
Manganese	0.034	0.039	0.19 L	0.26 L	0.38 L	0.33 L	0.33 L	0.31 L	NA	1.5 L	0.45 L	--	--	--	--	--	0.15

**Key to Data Table**

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

ND = Not detected.  
 NA = Not analyzed.  
 J = Estimated value.  
 U = Analyte was analyzed for but not detected.  
 † = Concentration exceeds the most stringent MAC.  
 m = Concentration exceeds the MAC for an MSA.  
 \* = Concentration exceeds the MAC for Chicago corporate limits.  
 r = Concentration exceeds the TACO Tier 1 RO for Residential Exposure.  
 L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.  
 = Concentration exceeds applicable comparison criteria.

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		<b>CONTAMINANTS OF CONCERN</b> FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-24	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-12
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A		

**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-24 (John Deere)												ISGS #1314V3-25 (Sivyer Steel Corp.)	Comparison Criteria					
	BORING	1314V3-24-B08	1314V3-24-B09	1314V3-24-B10	1314V3-24-B11		1314V3-24-B12		1314V3-24-B13		1314V3-24-B14		1314V3-25-B03	MACs			TACO		
SAMPLE	1314V3-24-B08 (0-8)	1314V3-24-B09 (0-4)	1314V3-24-B10 (0-5)	1314V3-24-B11 (0-6)	1314V3-24-B11 (6-12)	1314V3-24-B12 (0-6)	1314V3-24-B12 (6-12)	1314V3-24-B13 (0-6)	1314V3-24-B13 (6-12)	1314V3-24-B14 (0-6)	1314V3-24-B14 (6-12)	1314V3-25-B03 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	0-4	0-5	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12	0-8							
pH	7.9	7.5	8.5	8.4	7.7	8	7.5	7.6	7.2	8.2	7.7	8.1							
PID (meter units)	0	0	0	0	0	0	0	0	0	0	0	0							
SVOCs (mg/kg)																			
Benzo(a)anthracene	0.081	0.028 J	4.3 †mr*	0.31	ND U	0.091	ND U	0.067	ND U	0.033 J	ND U	0.013 J	0.9	1.8	1.1	1.8	170	--	
Benzo(a)pyrene	0.08	0.042	5 †mr*	0.31 †	ND U	0.13 †	ND U	0.075	ND U	0.033 J	ND U	0.011 J	0.09	2.1	1.3	2.1	17	--	
Benzo(b)fluoranthene	0.1	0.067	7.2 †mr*	0.42 J	ND U	0.2	ND U	0.1	ND U	0.043	ND U	0.012 J	0.9	2.1	1.5	2.1	170	--	
Dibenz(a,h)anthracene	0.012 J	ND UJ	0.42 †*	0.032 J	ND U	0.024 J	ND U	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	
Indeno(1,2,3-cd)pyrene	0.034 J	0.024 J	1.5 †*	0.098 J	ND U	0.083	ND U	0.033 J	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	
Inorganics (mg/kg)																			
Antimony	0.3 J	1.5 J	0.54 J	2.9 J	0.68 J	15 †	0.98 J	9.5 †	0.91 J	7.5 †	0.6 J	ND UJ	5	--	--	31	82	--	
Arsenic	14 †mr	6 J	2.3	4.5	3.1	7.2	6.8	8.8	6.9	8.3	6.3	2.3	11.3	13	--	13	61	--	
Chromium	12	11	5.3	10	12	26 †	17	13	16	12	18	ND U	21	--	--	230	690	--	
Iron	10,000	17,000 J †m	6,200	24,000 J †m	10,000	40,000 †m	17,000 †m	30,000 †m	17,000 †m	34,000 †m	18,000 †m	12,000	15,000	15,900	--	--	--	--	
Lead	18	65 J	170 †	110 †	6.4	280 †	7.6	230 †	9.2	130 †	7.2	490 J †r	107	--	--	400	700	--	
Manganese	170	450 J	670 †m	360	210	4,100 †mr	600	800 †m	830 †m	380	610	170	630	636	--	1,600	4,100	--	
Selenium	ND U	0.41 J	0.23 J	1 J	ND U	2.1 †	0.49 J	1.4 †	0.67	1.8 †	0.61	0.35 J	1.3	--	--	390	1,000	--	
Thallium	ND U	ND U	ND U	1.3	0.56 J	5.1 †	1.5	2	1.8	1.6	1.5	ND U	2.6	--	--	6.3	160	--	
TCLP Metals (mg/L)																			
Antimony	ND U	ND U	ND U	ND U	ND U	0.21 L	ND U	0.044 L	ND U	ND U	ND U	ND U	--	--	--	--	--	0.006	
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.35 J	--	--	--	--	--	5	
Lead	ND U	ND U	0.044 L	0.015 L	ND U	1.8 L	ND U	0.34 L	ND U	0.0086 L	ND U	ND U	--	--	--	--	--	0.0075	
Manganese	0.05	1.9 L	3.3 L	3 L	0.68 L	2.2 L	0.2 L	2.2 L	0.1	1.1 L	0.3 L	0.25 L	--	--	--	--	--	0.15	
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	
Thallium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002	
SPLP Metals (mg/L)																			
Antimony	NA	NA	NA	NA	NA	0.056 L	NA	0.012 L	NA	NA	NA	NA	--	--	--	--	--	0.006	
Lead	NA	NA	0.057 L	0.3 L	NA	0.41 L	NA	0.081 L	NA	0.064 L	NA	NA	--	--	--	--	--	0.0075	
Manganese	NA	1.2 L	0.13	0.58 L	ND U	0.21 L	ND U	0.12	NA	0.11	ND U	0.16 L	--	--	--	--	--	0.15	

**Key to Data Table**

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

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		<b>CONTAMINANTS OF CONCERN</b> FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-24 AND 1314V3-25	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 01/23/2017	FIGURE 4-13
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A		


**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-26 (Commercial Building)		ISGS #1314V3-32 (Commercial Buildings)								Comparison Criteria					
	1314V3-26-B01	1314V3-26-B02	1314V3-32-B01		1314V3-32-B02		1314V3-32-B03		1314V3-32-B04		MACs			TACO		
BORING	1314V3-26-B01 (0-8)	1314V3-26-B02 (0-8)	1314V3-32-B01 (0-6)	1314V3-32-B01 (6-12)	1314V3-32-B02 (0-6)	1314V3-32-B02 (6-12)	1314V3-32-B03 (0-6)	1314V3-32-B03 (6-12)	1314V3-32-B04 (0-6)	1314V3-32-B04 (6-12)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-26-B01 (0-8)	1314V3-26-B02 (0-8)	1314V3-32-B01 (0-6)	1314V3-32-B01 (6-12)	1314V3-32-B02 (0-6)	1314V3-32-B02 (6-12)	1314V3-32-B03 (0-6)	1314V3-32-B03 (6-12)	1314V3-32-B04 (0-6)	1314V3-32-B04 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-8	0-8	0-6	6-12	0-6	6-12	0-6	6-12	0-6	6-12						
pH	8.2	8.2	8.9	7.9	7.7	7.6	8.8	8.4	8.8	8.1						
PID (meter units)	0	0	0	0	0	0	0	0	0	0						
<b>Inorganics (mg/kg)</b>																
Iron	14,000	14,000	13,000	15,000	16,000 †m	13,000	8,600	11,000	17,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Manganese	290	360	330	360	390	330	230	360	470	470	630	636	--	1,600	4,100	--
<b>TCLP Metals (mg/L)</b>																
Iron	ND U	0.26 J	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	1.1 L	0.031	0.6 L	0.17 L	0.19 L	0.22 L	1.4 L	0.27 L	0.2 L	0.15	--	--	--	--	--	0.15
<b>SPLP Metals (mg/L)</b>																
Manganese	0.05	NA	0.66 L	0.67 L	0.52 L	0.59 J L	0.31 L	0.37 L	0.5 L	NA	--	--	--	--	--	0.15

SITE	ISGS #1314V3-32 (Commercial Buildings)			ISGS #1314V3-33 (Parking Lot)						Comparison Criteria						
	1314V3-32-B05	1314V3-32-B06	1314V3-32-B07	1314V3-33-B01		1314V3-33-B02		1314V3-33-B03		MACs			TACO			
BORING	1314V3-32-B05 (0-3)	1314V3-32-B06 (0-3)	1314V3-32-B07 (0-3)	1314V3-33-B01 (0-6)	1314V3-33-B01 (6-12)	1314V3-33-B02 (0-5)	1314V3-33-B02 (5-9.4)	1314V3-33-B03 (0-6)	1314V3-33-B03 (6-12)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
SAMPLE	1314V3-32-B05 (0-3)	1314V3-32-B06 (0-3)	1314V3-32-B07 (0-3)	1314V3-33-B01 (0-6)	1314V3-33-B01 (6-12)	1314V3-33-B02 (0-5)	1314V3-33-B02 (5-9.4)	1314V3-33-B03 (0-6)	1314V3-33-B03 (6-12)							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-3	0-3	0-3	0-6	6-12	0-5	5-9.4	0-6	6-12							
pH	8.8	8.8	8.5	7.8	8.4	8.6	8.6	8.1	7.7							
PID (meter units)	0	0	0	0	0	0	0	0	0							
<b>SVOCs (mg/kg)</b>																
Benzo(a)anthracene	0.096	0.2	0.046	0.13	ND U	0.15	0.072	14 †mr*	0.023 J	0.9	1.8	1.1	1.8	170	--	
Benzo(a)pyrene	0.099 †	0.2 †	0.046	0.16 †	ND U	0.17 †	0.084	13 †mr*	0.024 J	0.09	2.1	1.3	2.1	17	--	
Benzo(b)fluoranthene	0.14	0.3	0.063	0.23	ND U	0.26	0.12	18 †mr*	0.034 J	0.9	2.1	1.5	2.1	170	--	
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	ND U	3.8 †	ND U	0.6	--	--	32	6,200	--	
Dibenz(a,h)anthracene	ND U	0.038 J	ND U	0.023 J	ND U	0.021 J	ND U	2.1 †mr*	ND U	0.09	0.42	0.2	0.42	17	--	
Indeno(1,2,3-cd)pyrene	0.052	0.11	0.021 J	0.056	ND U	0.061	0.032 J	6.8 †mr*	0.013 J	0.9	1.6	0.9	1.6	170	--	
<b>Inorganics (mg/kg)</b>																
Chromium	13	53 †	15	13	14	6.3	5.8	13	12	21	--	--	230	690	0.1	
Lead	29	190 †	32	15	9.4	20 J	6.8	30	10	107	--	--	400	700	0.0075	
Manganese	320	400	410	330	330	210 J	270	470	490	630	636	--	1,600	4,100	0.15	
<b>TCLP Metals (mg/L)</b>																
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	
Lead	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	
Manganese	0.67 L	1 L	ND U	2.2 L	0.26 L	1.1 L	1.7 L	0.11	0.13	--	--	--	--	--	0.15	
<b>SPLP Metals (mg/L)</b>																
Manganese	ND U	0.53 L	NA	0.16 L	0.11	0.32 L	0.24 L	NA	NA	--	--	--	--	--	0.15	

**Key to Data Table**

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

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		<b>CONTAMINANTS OF CONCERN</b> <b>FAI 74 - INTERSTATE 74 (CONTRACT # 64C08)</b> <b>ISGS 1314V3-26, -32 AND -33</b>	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-14
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A		

**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-33 (Parking Lot)								ISGS #1314V3-60 (Vacant Lot)		Comparison Criteria							
	1314V3-33-B04		1314V3-33-B05		1314V3-33-B06		1314V3-33-B07		1314V3-60-B06		MACs			TACO				
BORING	1314V3-33-B04 (0-6)		1314V3-33-B04 (6-12)		1314V3-33-B05 (0-6)		1314V3-33-B05 (6-12)		1314V3-33-B06 (0-6)		1314V3-33-B06 (6-12)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-33-B04 (0-6)	1314V3-33-B04 (6-12)	1314V3-33-B05 (0-6)	1314V3-33-B05 (6-12)	1314V3-33-B06 (0-6)	1314V3-33-B06 (6-12)	1314V3-33-B07 (0-8)	1314V3-33-B07 (0-8)D	1314V3-60-B06 (0-6)	1314V3-60-B06 (6-12)								
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-6	6-12	0-6	6-12	0-6	6-12	0-8	0-8	0-6	6-12								
pH	8.8	8.4	8.4	7.9	8	7.6	8.4	8.6	11.8 #	8.3								
PID (meter units)	0-2.9**		0	0	0	0	0	0	0	0								
<b>SVOCs (mg/kg)</b>																		
Benzo(a)anthracene	0.2	ND U	0.0094 J	ND U	ND U	ND U	0.04	0.048	1.2 J †	ND U	0.9	1.8	1.1	1.8	170	--		
Benzo(a)pyrene	0.2 †	ND U	0.0089 J	ND U	ND U	ND U	0.057	0.065	0.97 J †	ND U	0.09	2.1	1.3	2.1	17	--		
Benzo(b)fluoranthene	0.36	ND U	ND U	ND U	ND U	ND U	0.093	0.1	1.5 J †	ND U	0.9	2.1	1.5	2.1	170	--		
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.12 J †	ND U	0.09	0.42	0.2	0.42	17	--		
<b>Inorganics (mg/kg)</b>																		
Cadmium	2.9	0.16	0.21	0.13	0.13	0.1 J	0.2	0.2	0.17	0.44	5.2	--	--	78	200	--		
Iron	14,000	13,000	14,000	14,000	14,000	12,000	12,000	12,000	6,600	18,000 †m	15,000	15,900	--	--	--	--		
Lead	890 †rc	10	24	8.7	15	8.3	47	49	22	10	107	--	--	400	700	--		
Manganese	380	370	590	340	390	240	320	360	680 †m	820 †m	630	636	--	1,600	4,100	--		
<b>TCLP Metals (mg/L)</b>																		
Cadmium	0.038 L	0.0027 J	0.0024 J	ND U	ND U	0.002 J	0.0023 J	0.0023 J	ND U	ND U	--	--	--	--	--	0.005		
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5		
Lead	1.7 L	ND U	ND U	ND U	ND U	ND U	0.02 L	0.034 L	ND U	ND U	--	--	--	--	--	0.0075		
Manganese	0.48 L	2.9 L	4.1 L	0.21 L	0.43 L	0.26 L	0.2 L	0.32 L	ND U	0.072	--	--	--	--	--	0.15		
<b>SPLP Metals (mg/L)</b>																		
Cadmium	0.0039 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005		
Lead	3.7 L	NA	NA	NA	NA	NA	0.13 L	0.077 L	NA	NA	--	--	--	--	--	0.0075		
Manganese	0.49 L	0.64 L	0.35 L	0.25 L	0.22 L	0.076	0.31 L	0.26 L	NA	NA	--	--	--	--	--	0.15		

**Key to Data Table**

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

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area

TACO = Tiered Approach to Corrective Action Objectives

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure.

ND = Not detected.

NA = Not analyzed.

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

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

J = Estimated value.

U = Analyte was analyzed for but not detected.

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

\*\* = Headspace reading is above 1.0 photoionization detector (PID) units.

† = Concentration exceeds the most stringent MAC.

m = Concentration exceeds the MAC for an MSA.

\* = Concentration exceeds the MAC for Chicago corporate limits.

r = Concentration exceeds the TACO Tier 1 RO for Residential Exposure.

c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.

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

  = Headspace reading exceeds background levels.

  = Concentration exceeds applicable comparison criteria.

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS		<b>CONTAMINANTS OF CONCERN</b> FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-33 AND 1314V3-60	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-15
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT		IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A		



**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-1 (IDOT ROW)											ISGS #1314V3-32 (Commercial Buildings)	Comparison Criteria					
	1314V3-01-B06			1314V3-01-B07			1314V3-01-B08		1314V3-01-B10	1314V3-01-B11			1314V3-32-B08	MACs			TACO	
BORING	1314V3-01-B06 (0-8)	1314V3-01-B06 (8-15)	1314V3-01-B06 (8-15)D	1314V3-01-B07 (0-6)	1314V3-01-B07 (6-12)	1314V3-01-B08 (0-4)	1314V3-01-B08 (4-9)	1314V3-01-B10 (0-6)	1314V3-01-B11 (0-8)	1314V3-01-B11 (8-15)	1314V3-32-B08 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX	0-8	8-15	8-15	0-6	6-12	0-4	4-9	0-6	0-8	8-15	0-3							
DEPTH (feet)	7.9	7.8	7.9	7.8	7.6	7.7	7.7	8.6	8.3	8.6	8.9							
pH	0			0			0		0			0						
PID (meter units)																		
<b>Inorganics (mg/kg)</b>																		
Iron	13,000	16,000 †m	14,000	13,000	13,000	12,000	15,000	12,000	10,000	11,000	12,000	15,000	15,900	--	--	--	--	
Lead	42	8.2	8.1	49	7.2	48	7.4	24	13	7.5	18	107	--	--	400	700	--	
Manganese	360	440	380	250	350	490	770 †m	280	220	210	250	630	636	--	1,600	4,100	--	
Mercury	0.2	0.029	0.019 J	0.18	0.011 J	0.04	0.022	0.038	0.029	0.026	2 †	0.89	--	--	10	0.1	--	
<b>TCLP Metals (mg/L)</b>																		
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	
Lead	0.013 L	ND U	ND U	0.013 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	
Manganese	4.1 L	0.043	0.097	5.6 L	ND U	1.1 L	ND U	0.41 L	0.014 J	0.73 L	0.14	--	--	--	--	--	0.15	
Mercury	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002	
<b>SPLP Metals (mg/L)</b>																		
Lead	0.054 L	NA	NA	0.017 L	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	
Manganese	0.34 L	NA	NA	0.066	NA	0.29 L	NA	0.4 L	NA	0.71 L	NA	--	--	--	--	--	0.15	

SITE	ISGS #1314V3-56 (Commercial Building)			ISGS #1314V3-57 (Old Chamber Building)			Comparison Criteria						
	1314V3-56-B01	1314V3-56-B02	1314V3-56-B03	1314V3-57-B01	1314V3-57-B02	1314V3-57-B03	MACs			TACO			
BORING	1314V3-56-B01 (0-3)	1314V3-56-B02 (0-3)	1314V3-56-B02 (0-3)D	1314V3-56-B03 (0-3)	1314V3-57-B01 (0-3)	1314V3-57-B02 (0-3)	1314V3-57-B03 (0-5)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
MATRIX	0-3	0-3	0-3	0-3	0-3	0-3	0-5						
DEPTH (feet)	8	8.9	9.1 #	8.2	8.1	8.4	8.7						
pH	0			0			0						
PID (meter units)													
<b>SVOCs (mg/kg)</b>													
Benzo(a)pyrene	ND U	0.013 J	0.052	ND U	0.22 †	0.16 †	ND U	0.09	2.1	1.3	2.1	17	--
<b>Inorganics (mg/kg)</b>													
Lead	7.6	9.4	9.8	6.7	66	52	14 J	107	--	--	400	700	--
Manganese	620	400	370	500	330	370	360 J	630	636	--	1,600	4,100	--
<b>TCLP Metals (mg/L)</b>													
Lead	ND U	ND U	ND U	ND U	ND U	0.011 L	ND U	--	--	--	--	--	0.0075
Manganese	0.21 L	0.29 L	0.25 L	1.7 L	0.14	0.6 L	1.9 L	--	--	--	--	--	0.15
<b>SPLP Metals (mg/L)</b>													
Lead	NA	NA	NA	NA	NA	0.15 L	NA	--	--	--	--	--	0.0075
Manganese	0.76 L	0.81 L	0.59 L	0.34 L	NA	0.21 L	0.7 L	--	--	--	--	--	0.15

**Key to Data Table**

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

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area

TACO = Tiered Approach to Corrective Action Objectives

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure.

ND = Not detected.

NA = Not analyzed.

J = Estimated value.

U = Analyte was analyzed for but not detected.

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

† = Concentration exceeds the most stringent MAC.

m = Concentration exceeds the MAC for an MSA.

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

☐ = Concentration exceeds applicable comparison criteria.

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



**CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-59 (Residence)		ISGS #1314V3-60 (Vacant Lot)								Comparison Criteria					
	1314V3-59-B01		1314V3-60-B01		1314V3-60-B02	1314V3-60-B03		1314V3-60-B04	1314V3-60-B05		MACs			TACO		
BORING	1314V3-59-B01		1314V3-60-B01		1314V3-60-B02	1314V3-60-B03		1314V3-60-B04	1314V3-60-B05		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-59-B01 (0-5)	1314V3-59-B01 (5-10)	1314V3-60-B01 (0-6)	1314V3-60-B01 (6-11)	1314V3-60-B02 (0-7)	1314V3-60-B03 (0-4)	1314V3-60-B03 (4-9)	1314V3-60-B04 (0-5)	1314V3-60-B05 (0-6)	1314V3-60-B05 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	0-6	6-11	0-7	0-4	4-9	0-5	0-6	6-12						
pH	8.2	8.3	7.6	7.6	8	7.5	7.5	8.9	8.2	7.8						
PID (meter units)	0		0		0	0		0	0							
<b>SVOCs (mg/kg)</b>																
Benzo(a)pyrene	0.009 J	ND U	ND U	ND U	0.13 †	ND U	ND U	0.043 J	0.016 J	0.032 J	0.09	2.1	1.3	2.1	17	--
<b>Inorganics (mg/kg)</b>																
Lead	14	6.1	23	8.6	72	15	8.6	26	13	10	107	--	--	400	700	0.0075
Manganese	460	190	180	330	530	260	160	380	300	280	630	636	--	1,600	4,100	0.15
Selenium	ND U	1.6 †	0.48 J	0.33 J	0.5 J	0.59	ND U	0.47 J	0.32 J	ND U	1.3	--	--	390	1,000	0.05
<b>TCLP Metals (mg/L)</b>																
Lead	ND U	ND U	ND U	ND U	0.021 L	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.35 L	2.4 L	0.042	ND U	0.13	0.013 J	ND U	1.8 L	ND U	0.042	--	--	--	--	--	0.15
Selenium	ND U	0.025 J	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
<b>SPLP Metals (mg/L)</b>																
Lead	NA	NA	NA	NA	0.11 L	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.23 L	0.18 L	NA	NA	NA	NA	NA	0.49 L	NA	NA	--	--	--	--	--	0.15

**Key to Data Table**

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

mg/kg = Milligrams per kilogram.  
 mg/L = Milligrams per liter.  
 MSA = Metropolitan Statistical Area  
 TACO = Tiered Approach to Corrective Action Objectives  
 TCLP = Toxicity Characteristic Leaching Procedure.  
 SCGIER = Soil Component of the Groundwater Ingestion Exposure Route  
 SPLP = Synthetic Precipitation Leaching Procedure.

ND = Not detected.  
 NA = Not analyzed.  
 J = Estimated value.  
 U = Analyte was analyzed for but not detected.  
 † = Concentration exceeds the most stringent MAC.  
 L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.  
 = Concentration exceeds applicable comparison criteria.  
 = Concentration exceeds the most Stringent MAC, but is below the MAC for an MSA.

CAD FILE EE9 WO46 PSI DWG	DESIGNED BY: J. HUGHES	CHECKED BY: J. JENKINS	 Global Environmental Specialists	CONTAMINANTS OF CONCERN FAI 74 - INTERSTATE 74 (CONTRACT # 64C08) ISGS 1314V3-59 AND 1314V3-60	PTB/JOB 172-027/ P-30-010-14	ROUTE: FAI 74 (I-74)	CITY: MOLINE	DATE: 03/03/2017	FIGURE 4-17
REVISION 0	DRAWN BY: V. GEE	APPROVED BY: D. TIEBOUT			IDOT PROJECT # P-93-032-01	WORK ORDER 46	COUNTY: ROCK ISLAND	SCALE: N/A	

# 5

## Conclusions and Recommendations

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

E & E's field investigation was designed to provide an initial characterization of site conditions at pre-designated boring locations. The investigation was limited in terms of analytical parameters and the number of samples collected, based on the known history of the property. Consequently, the findings and conclusion of this investigation are subject to revision if more site data becomes available. Applicable analytical data and soil management requirements associated with the field investigation conducted by Weston under PTB No. 167-034, Work Order No. 040 are included in this report. Soil removed from outside E & E's investigation area that exhibits discoloration or odor indicative of contamination should be sampled to determine the proper disposal classification.

### 5.1 Estimated Soil Management Volumes and Costs

#### 5.1.1 ISGS #1314V3-1 (IDOT ROW)

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, and manganese were identified as COCs in soil at ISGS #1314V3-1 (IDOT ROW). VOCs were not detected during headspace screening of site soil. Soil associated with two borings (1314V3-01-B03 and 13143-01-B04) exhibited pH levels above the acceptable range for management of the soil at a CCDD facility or USFO. Soil pH associated with the remaining site borings were within the acceptable range.

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

- 1314V3-01-B01 (TCLP/SPLP lead)
- 1314V3-01-B02 (TCLP/SPLP manganese)

- 1314V3-01-B06 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 1314V3-01-B07 (TCLP/SPLP lead)
- 1314V3-01-B08 (TCLP/SPLP manganese)
- 1314V3-01-B09 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 1314V3-01-B10 (TCLP/SPLP manganese)
- 1314V3-01-B11 (TCLP/SPLP manganese)

Soil associated with boring 1314V3-01-B05 (benzo(a)pyrene, TCLP/SPLP lead, and TCLP/SPLP manganese) may be managed on-site as fill; if it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Soil associated with boring 1314V3-01-B03 (pH) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil according to Article 202.03; however, the soil cannot be taken to a CCDD facility or USFO.

Soil associated with boring 1314V3-01-B04 (pH, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, manganese, and TCLP/SPLP lead) may be managed as on-site fill. If it cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 358 cubic yards of soil at the site will require off-site disposal as non-special waste; 15,751 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO; and 311 cubic yards of soil may be managed off-site as uncontaminated soil, but not to a CCDD or USFO. The estimated cost for off-site disposal of soil removed from the site is \$1,051,966.00.

### **5.1.2 ISGS #1314V3-2 (Mississippi River)**

Benzo(a)pyrene and manganese were identified as COCs in soil at ISGS #1314V3-2 (Mississippi River). VOCs were not detected during headspace screening of site soil. Soil associated with both of the site borings exhibited pH levels above the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with borings 1314V3-02-B01 (pH, benzo(a)pyrene, and TCLP/SPLP manganese) and 1314V3-02-B02 (pH and TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the

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

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 112 cubic yards of soil at the site will require off-site disposal as non-special waste if it cannot be managed on-site. The estimated cost for off-site disposal of soil removed from the site is \$8,254.00.

### **5.1.3 ISGS #1314V3-4 (City of Moline, Water Department)**

Benzo(a)pyrene, lead, and manganese were identified as COCs in soil at ISGS #1314V3-4 (City of Moline, Water Department). VOCs were not detected during headspace screening of site soil. The pH associated with soil from the site boring was within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with boring 1314V3-4-B01 (benzo(a)pyrene, lead, TCLP/SPLP manganese) may be managed on-site as fill. If the soil cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 48 cubic yard of soils at the site will require off-site disposal as non-special waste if it cannot be managed on-site. The estimated cost for off-site disposal of soil removed from the site is \$5,224.00. This cost includes off-site management of impacted groundwater, as discussed in Section 5.3.3

### **5.1.4 ISGS #1314V3-5 (Industrial Building)**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead and manganese were identified as COCs in soil at ISGS #1314V3-5 (Industrial Building). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

COCs were not detected in soil associated with 1314V-05-B01. Soil associated with this boring may be managed without restriction.

Soil associated with boring 1314V1-05-B02 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the

boring may be managed off-site as an uncontaminated soil at a CCDD facility or USFO within an MSA.

Soil associated with boring 1314V3-05-B03 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, manganese, and TCLP/SPLP lead) may be managed as on-site fill. If it cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Planned construction at the site is anticipated to occur in the vicinity of boring 1314V1-05-B01. Borings 1314V1-05-B02 and 1314V1-05-B03 were advanced to assess an area of the site for the presence of an UST. Project plans do not indicate that excavation is planned in the vicinity of the borings. Consequently, E & E has not estimated a cost for off-site disposal of impacted soil at the site.

#### **5.1.5 ISGS #1314V3-6 (Vacant Land)**

Arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, iron, lead and manganese were identified as COCs in soil at ISGS #1314V3-6 (Vacant Land). E & E did not detect VOCs during headspace screening of site soil. The pH levels associated with soil from the site borings conducted by E & E were within the acceptable range for management of the soil at a CCDD facility or USFO.

Weston advanced borings VL1-1 through VL1-19 at the site as part of a PSI conducted under PTB No. 167-034, Work Order No. 040. Weston detected VOCs during headspace screening of site soil from boring VL1-17. The pH associated with soil from boring VL1-13 was outside of the acceptable range for management of the soil at a CCDD facility or USFO

COCs were not detected in soil associated with Weston Borings VL1-1, VL1-6, VL1-7 and VL1-18. Soil associated with these borings may be managed without restriction.

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

- 1314V3-06-B03 (TCLP/SPLP manganese)
- 1314V3-06-B05 (TCLP/SPLP manganese)
- 1314V3-06-B11 (TCLP/SPLP manganese)
- VL1-2 (TCLP/SPLP manganese)
- VL1-3 (TCLP/SPLP lead and TCLP/SPLP manganese)

- VL1-4 (TCLP/SPLP lead and TCLP/SPLP manganese)
- VL1-5 (TCLP/SPLP manganese)

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

- 1314V3-06-B04 (benzo(a)pyrene and TCLP/SPLP manganese)
- 1314V3-06-B06 (benzo(a)pyrene)
- 1314V3-06-B09 (benzo(a)pyrene, benzo(b)fluoranthene, and TCLP/SPLP manganese)
- 1314V3-06-B10 (benzo(a)pyrene)
- VL1-9 (benzo(a)pyrene and TCLP/SPLP manganese)
- VL1-15 (benzo(a)pyrene and TCLP/SPLP lead)
- VL1-19 (benzo(a)pyrene and dibenzo(a,h)anthracene)

Soil associated with boring 1314V3-06-B02 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and manganese) and) may be managed as on-site fill. If it cannot be managed on-site, the soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475.

Soil associated with the following borings must be managed off-site as non-special waste:

- 1314V3-06-B01 (arsenic, benzo(a)pyrene, iron)
- 1314V3-6-B07 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and manganese) 1314V3-06-B08 (benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead and TCLP/SPLP manganese)
- 1314V3-06-B08 (benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead and TCLP/SPLP manganese)
- VL1-8 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, TCLP/SPLP lead)
- VL1-10 (arsenic, manganese and benzo(a)pyrene)
- VL1-11 (PCBs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene)
- VL1-12 (arsenic, lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and TCLP/SPLP manganese)

- VL1-13 (pH, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene)
- VL1-14 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, manganese)
- VL1-16 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, manganese and TCLP/SPLP lead)
- VL1-17 (TVOCs, manganese and TCLP/SPLP lead)

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 24,513 cubic yards of soil at the site will require off-site disposal as non-special waste, and 2,128 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$ \$1,706,110.00.

#### **5.1.6 ISGS #1314V3-7 (River Stone Moline Yard)**

Arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and manganese were identified as COCs in soil at ISGS #1314V3-7 (River Stone Moline Yard). VOCs were detected above background levels during headspace screening of soil associated with boring 1314V3-07-B02. The pH associated with soil at boring 1314V3-07-B01 was above the acceptable range for management of the soil at a CCDD facility or USFO. The pH levels associated with soil from the other site borings were within the acceptable range.

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

- 1314V3-5-B01 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene),
- 1314V3-07-B02 (VOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene)
- 1314V3-07-B03 (arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene)
- 1314V3-07-B04 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, TCLP/SPLP manganese)



Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 10,762.0 cubic yards of soil at the site will require off-site disposal as non-special waste. The estimated cost for off-site disposal of soil removed from the site is \$722,762.00. This cost includes off-site management of impacted groundwater and installation of trench backfill plugs, as discussed in Sections 5.3.5 and 5.4.2.

#### **5.1.7 ISGS #1314V3-8 (Commercial Building)**

Benzo(a)pyrene and lead were identified as COCs in soil at ISGS #1314V3-8 (Commercial Building). VOCs were not detected during headspace screening of site soil. The pH associated with soil from the site boring was within the acceptable range for management of the soil at a CCDD facility or USFO.

Weston advanced boring CB-8 at the site as part of a PSI conducted under PTB No. 167-034, Work Order No. 040.

Soil associated with boring 1314V3-08-B01 (benzo(a)pyrene and TCLP/SPLP lead) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as an uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Soil associated with Weston boring CB-8 (benzo(a)pyrene, lead, TCLP/SPLP manganese), may be managed as on-site fill. If it cannot be managed on-site, the soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 365 cubic yards of soil at the site will require off-site disposal as non-special waste, and 395 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$49,726.00.

#### **5.1.8 ISGS #1314V3-11 (Vacant Land)**

Benzo(a)pyrene and manganese were identified as COCs in soil at ISGS #1314V3-11 (Vacant Land). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with boring 1314V3-11-B01 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the

boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Soil associated with borings 1314V3-11-B02 (benzo(a)pyrene, TCLP/SPLP manganese) and 1314V3-11-B03 (benzo(a)pyrene, TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 7 cubic yard of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$1,534.00.

#### **5.1.9 ISGS #1314V3-17 (Parking Lot)**

Arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead, and manganese were identified as COCs in soil at ISGS #1314V3-17 (Parking Lot). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

COCs were not detected in soil associated with 1314V-17-B01. Soil associated with this boring may be managed without restriction.

Soil associated with boring 1314V3-17-B02 (arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead, and TCLP/SPLP manganese) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Soil associated with boring 1314V3-17-B03 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 51 cubic yards of soil at the site will require off-site disposal as non-special waste, and 51 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$7,614.00.

**5.1.10 ISGS #1314V3-18 (Vacant Land)**

Arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead, manganese and thallium were identified as COCs in soil at ISGS #1314V3-18 (Vacant Land). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings advanced by E & E were within the acceptable range for management of the soil at a CCDD facility or USFO.

Weston advanced borings VL2-1 through VL2-10 at the site as part of a PSI conducted under PTB No. 167-034, Work Order No. 040. VOCs were not detected during headspace screening of site soil. The pH associated with soil from boring VL2-6 was outside of the acceptable range for management of the soil at a CCDD facility or USFO

COCs were not detected in soil associated with borings 1314V-18-B07, VL2-2, VL2-3 and VL2-10. Soil associated with these borings may be managed without restriction.

Soil associated with boring VL2-6 (pH) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil according to Article 202.03; however, the soil cannot be taken to a CCDD facility or USFO.

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

- 1314V3-18-B01 (TCLP/SPLP manganese)
- 1314V3-18-B03 (TCLP/SPLP manganese)
- 1314V3-18-B05 (TCLP/SPLP lead and TCLP/SPLP manganese)

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

- 1314V3-18-B02 (benzo(a)pyrene)
- 1314V3-18-B04 (benzo(a)pyrene, TCLP/SPLP manganese)
- 1314V3-18-B06 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, TCLP/SPLP lead, TCLP/SPLP manganese)
- 1314V3-18-B08 (benzo(a)pyrene, TCLP/SPLP lead and TCLP/SPLP manganese)
- VL2-4 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene)
- VL2-5 (benzo(a)pyrene)

Soil associated with boring 1314V3-18-B09 (arsenic, thallium, TCLP/SPLP manganese) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Soil associated with borings VL2-8 (benzo(a)pyrene, manganese and lead), and VL2-9 (benzo(a)pyrene, lead, and TCLP/SPLP manganese) may be managed on-site as fill. If the soil cannot be managed on-site then the soil must be managed off-site as non-special waste.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 5,356 cubic yards of soil at the site will require off-site disposal as non-special waste, and 13,074 cubic yards of soil may be managed off-site as uncontaminated soil, but not to a CCDD or USFO. The estimated cost for off-site disposal of soil removed from the site is \$1,180,606.00.

#### **5.1.11 ISGS #1314V3-21 (BNSF Railroad)**

Antimony, benzo(a)pyrene, lead, and manganese were identified as a COCs in soil at ISGS #1314V3-21 (BNSF Railroad). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with boring 1314V3-21-B01 (benzo(a)pyrene and TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Soil associated with boring 1314V3-21-B02 (TCLP/SPLP antimony, benzo(a)pyrene, lead, and TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 100 cubic yards of soil at the site will require off-site disposal as non-special waste, and 519 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$40,702.00.

**5.1.12 ISGS #1314V3-24 (John Deere)**

Arsenic, antimony, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead, and manganese were identified as COCs in soil at ISGS #1314V3-24 (John Deere). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

E & E observed an anomaly measuring approximately 6 square feet at the site at the possible location of a former UST. PCE and xylenes were detected below applicable reference concentrations in soil at one of the borings advanced adjacent to the suspected UST location (1314V3-24-13). E & E has included costs for the removal of an UST at this site.

Soil associated with borings 1314V3-24-B01 (benzo(a)pyrene) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO, including Chicago.

Soil associated with boring 1314V3-24-B09 (TCLP/SPLP manganese), may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Soil associated with the following borings may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475:

- 1314V3-24-B03 (lead and TCLP/SPLP manganese)
- 1314V-24-B04 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, manganese, TCLP/SPLP antimony)
- 1314V3-24-B05 (antimony, lead, benzo(a)pyrene, and TCLP/SPLP manganese)
- 1314V3-24-B06 (manganese)
- 1314V3-25-B07 (lead and TCLP/SPLP manganese)
- 1314V3-25-B11 (benzo(a)pyrene, lead and TCLP/SPLP manganese)
- 1314V3-25-B13 (antimony and lead)
- 1314V3-25-B14 (antimony and lead)

The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the borings.

Soil associated with the following borings must be managed off-site as non-special waste:

- 1314V3-24-B02 (arsenic, lead, antimony, benzo(a)pyrene)
- 1314V3-24-B08 (arsenic)
- 1314V3-25-B10 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead)
- 1314V3-25-B12 (antimony, benzo(a)pyrene, lead and manganese)

The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the borings.

Costs estimated for the off-site disposal of soil and an UST are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 2,059 cubic yards of soil at the site will require off-site disposal as non-special waste, and 824 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$190,598.00.

#### **5.1.13 ISGS #1314V3-25 (Sivyer Steel Corp.)**

Antimony, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead, and manganese were identified as a COCs in soil at ISGS #1314V3-25 (Sivyer Steel Corp.). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with the following borings must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475:

- 1314V3-25-B01 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead manganese)
- 1314V3-25-B03 (lead and TCLP/SPLP manganese)
- 1314V3-25-B05 (benzo(a)pyrene, lead, manganese, TCLP/SPLP antimony)
- 1314V3-25-B06 (antimony, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead)

The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the borings.

Soil associated with boring 1314V3-25-B02 (lead and TCLP/SPLP manganese) may be used as on-site fill. If the soil cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Soil associated with borings 1314V3-25-B04 (TCLP/SPLP manganese) and 1314V3-24-B07 (TCLP/SPLP manganese), may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 998 cubic yards of soil at the site will require off-site disposal as non-special waste, and 1,207 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$142,206.00.

#### **5.1.14 ISGS #1314V3-26 (Commercial Building)**

COCs were not detected in soil at ISGS #1314V3-26 (Commercial Building). VOCs were not detected during headspace screening of site soil, and the pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO. Soil associated with ISGS #1314V-26 may be managed without restriction.

#### **5.1.15 ISGS #1314V3-32 (Commercial Buildings)**

Benzo(a)pyrene and manganese were identified as a COCs in soil at ISGS #1314V3-32 (Commercial Buildings). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

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

- 1314V3-32-B01 (TCLP/SPLP manganese)
- 1314V3-32-B02 (TCLP/SPLP manganese)
- 1314V3-32-B03 (TCLP/SPLP manganese)
- 1314V3-32-B04 (TCLP/SPLP manganese)

Soil associated with borings 1314V3-32-B05 (benzo(a)pyrene) and 1314V3-32-B06 (benzo(a)pyrene and TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be man-

aged off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

COCs were not detected in soil associated with 1314V-32-B07 and 1314V-32-B08. Soil associated with these borings may be managed without restriction.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 94 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$7,102.00.

#### **5.1.16 ISGS #1314V3-33 (Parking Lot)**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead, and manganese were identified as COCs in soil at ISGS #1314V3-33 (Parking Lot). VOCs were detected above background levels during headspace screening of soil at boring 1314V3-33-B04. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with borings 1314V3-33-B01 (benzo(a)pyrene and TCLP/SPLP manganese) and 1314V3-33-B02 (benzo(a)pyrene and TCLP/SPLP manganese), may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

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

- 1314V3-33-B05 (TCLP/SPLP manganese)
- 1314V3-33-B06 (TCLP/SPLP manganese)
- 1314V3-33-B07 (TCLP/SPLP lead and TCLP/SPLP manganese)

Soil associated with borings 1314V3-33-B03 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) and 1314V3-33-B04 (VOCs, lead, benzo(a)pyrene and TCLP/SPLP manganese) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the borings. Borings 1314V3-33-B03 and 1314V3-33-B04 were advanced to assess a potential UST location, and construction excavation is not associated with the borings.



Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 161.0 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$11,390.00.

**5.1.17 ISGS #1314V3-56 (Commercial Building)**

Manganese was identified as the lone COC in soil at ISGS #1314V3-56 (Commercial Building). VOCs were not detected during headspace screening of site soil; however, the pH associated with soil at boring 1314V3-56-B02 was above the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with the borings 1314V3-56-B01 (TCLP/SPLP manganese) and 1314V-56-B03 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Soil associated with boring 1314V3-56-B02 (pH and TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 39 cubic yards of soil at the site will require off-site disposal as non-special waste, and 247 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$19,390.00.

**5.1.18 ISGS #1314V3-57 (Old Chamber Building)**

Benzo(a)pyrene, lead and manganese were identified as a COCs in soil at ISGS #1314V3-57 (Old Chamber Building). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with the borings 1314V3-57-B01 (benzo(a)pyrene) and 1314V-57-B02 (benzo(a)pyrene, TCLP/SPLP lead, TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Soil associated with the boring 1314V-57-B03 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 1,403 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$90,878.00.

#### **5.1.19 ISGS #1314V3-59 (Residence)**

Manganese was identified as the lone COC in soil at ISGS #1314V3-59 (Residence). VOCs were not detected during headspace screening of site soil. The pH levels associated with soil from the site boring were within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with boring 1314V3-59-B01 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 621 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$40,830.00.

#### **5.1.20 ISGS #1314V3-60 (Vacant Lot)**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead and manganese were identified as a COCs in soil at ISGS #1314V3-60 (Vacant Lot). VOCs were not detected during headspace screening of site soil; however, the pH of 11.8 SU associated with soil from boring 1314V3-60-B06 was above the acceptable range for management of the soil at a CCDD facility or USFO.

COCs were not detected in soil associated with borings 1314V3-60-B01, 1314V3-60-B03, and 1314V3-60-B05. Soil associated with these borings may be managed without restriction.

Soil associated with boring 1314V3-60-B02 (benzo(a)pyrene and TCLP/SPLP lead) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Soil associated with boring 1314V3-60-B04 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA.

Soil associated with boring 1314V3-60-B06 (pH, benzo(a)anthracene, benzo(a)-pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-5, E & E estimates that approximately 1,307 cubic yards of soil at the site will require off-site disposal as non-special waste, and 1,604 cubic yards of soil at the site may be managed off-site as uncontaminated soil to a CCDD facility or USFO. The estimated cost for off-site disposal of soil removed from the site is \$192,318.00.

## **5.2 Soil Management Areas and Applicable Regulations**

### **5.2.1 ISGS #1314V3-1 (IDOT ROW)**

Station 252+35 to Station 252+90 (existing I-74 NB), 0 to 40' RT and 0 to 20' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: lead.

Station 252+90 to Station 253+85 (existing I-74 NB), 0 to 20' RT and 0 to 20' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 253+85 to Station 254+90 (existing I-74 NB), 0 to 20' RT and 0 to 20' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(b)(1) and shall be managed in accordance with Article 669.09. COC sampling parameter: pH.

Station 254+90 to Station 255+95 (existing I-74 NB), 0 to 30' RT and 0 to 20' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH, benzo(a)anthracene, benzo(a)-pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, manganese.

Station 255+95 to Station 257+20 (existing I-74 NB), 0 to 30' RT and 0 to 50' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead, manganese.

Station 44+05 to Station 45+45 (proposed I-74), 35' to 95' RT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead, manganese.

Station 45+45 to Station 46+90 (proposed I-74), 35' to 95' RT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: lead.

Station 46+90 to Station 47+85 (proposed I-74), 35' to 125' RT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 430+65 to Station 431+45 (Ramp 6th-D), 0 to 30' RT and 0 to 30' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead, manganese.

Station 44+00 to Station 45+65 (proposed I-74), 0 to 35' RT and 0 to 75' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 45+65 to Station 47+75 (proposed I-74), 0 to 35' RT and 0 to 75' LT (ROW, PESA Site 1314V3-1, mile markers 0 to 2.5, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

### **5.2.2 ISGS #1314V3-2 (Mississippi River)**

Station 219+25 to Station 219+70 (Ramp RD-H), 0 to 100' RT (Mississippi River, PESA Site 1314V3-2, near I-74 mile marker 1, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH, benzo(a)pyrene, manganese.

Station 127+50 to Station 128+60 (Ramp RD-G), 0 to 210' RT and 0 to 105' LT (Mississippi River, PESA Site 1314V3-2, near I-74 mile marker 1, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH, manganese.

### **5.2.3 ISGS #1314V3-4 (City of Moline, Water Department)**

Station 252+35 to Station 252+90 (existing I-74 SB), 0 to 60' LT (City of Moline Water Division, PESA Site 1314V3-4, 30 18<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead, manganese.

**5.2.4 ISGS #1314V3-5 (Industrial Building)**

Station 256+80 to Station 257+75 (I-74 existing NB), 45' to 195' LT (Industrial Building, PESA Site 1314V3-5, 1 Kone Court, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 257+75 to Station 258+95 (I-74 existing NB), 45' to 195' LT (Industrial Building, PESA Site 1314V3-5, 1 Kone Court, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, manganese.

**5.2.5 ISGS #1314V3-6 (Vacant Land)**

Station 128+65 to Station 129+60 (Ramp RD-G), 40' to 185' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: arsenic, benzo(a)pyrene, and iron.

Station 129+60 to Station 130+70 (Ramp RD-G), 40' to 155' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, manganese.

Station 130+70 to Station 131+50 (Ramp RD-G), 70' to 120' RT (Vacant Land, PESA Site 1314V3-6 (1314-7, 1314-5, 2708-64, 1314V2-6), 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 132+30 to Station 133+10 (Ramp RD-G), 0 to 20' and 0 to 50' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, manganese.

Station 133+10 to Station 134+00 (Ramp RD-G), 45' to 100' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 134+00 to Station 134+75 (Ramp RD-G), 25' to 110' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameter: benzo(a)pyrene.

## 5 Conclusions and Recommendations

Station 133+65 to Station 134+65 (Ramp RD-G), 95' to 235' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, manganese.

Station 133+65 to Station 135+20 (Ramp RD-G), 235' to 420' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)-anthracene, lead, manganese.

Station 134+00 to Station 134+65 (Ramp RD-G), 0 to 25' RT and 0 to 55' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, benzo(b)fluoranthene, manganese.

Station 211+10 to Station 212+35 (Ramp RD-H), 5' to 95' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameter: benzo(a)pyrene.

Station 30+60 to Station 31+35 (proposed I-74), 0 to 20' RT and 0 to 20' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 30+60 to Station 31+35 (proposed I-74), 20' to 100' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 30+60 to Station 31+15 (I-74 proposed), 30' to 300' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 133+10 to Station 134+00 (Ramp RD-G), 0 to 50' RT and 0 to 50' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese, benzo(a)pyrene.

Station 27+40 to Station 29+20 (proposed I-74), 0 to 20' RT and 0 to 95' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with

## 5 Conclusions and Recommendations

Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene and lead.

Station 131+45 to Station 132+30 (Ramp RD-G), 0 to 95' RT and 0 to 5' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH, benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene.

Station 26+00 to Station 27+40 (proposed I-74), 0 to 15' RT and 0 to 100' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and lead.

Station 130+70 to Station 131+45 (Ramp RD-G), 0 to 70' RT and 0 to 5' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene.

Station 128+60 to Station 130+65 (Ramp RD-G). 0 to 40' RT and 0 to 35' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese and lead.

Station 127+50 to Station 128+60 (Ramp RD-G), 0 to 115' RT and 0 to 35' LT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, dibenzo(a,h)anthracene.

Station 134+75 to Station 135+30 (Ramp RD-G), 25' RT to 115' RT (Vacant Land, PESA Site 1314V3-6, 2020 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 217+55 to Station 219+45 (Ramp RD-H), 85 to 120' LT (River Stone Moline Yard, PESA Site 1314V3-7, 75 23rd Street and 301 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene.

Station 216+35 to Station 218+55 (Ramp RD-H), 55' to 90' LT (River Stone Moline Yard, PESA Site 1314V3-7, 75 23rd Street and 301 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in

accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, VOCs.

Station 215+35 to Station 216+35 (Ramp RD-H), 55' to 100' LT (River Stone Moline Yard, PESA Site 1314V3-7, 75 23rd Street and 301 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: arsenic, benzo(a)-anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene.

Station 212+35 to Station 214+85 (Ramp RD-H), 0 to 65' LT (Commercial Building, PESA Site 1314V3-8, 190 22<sup>nd</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead.

Station 213+30 to Station 214+15 (Ramp RD-H), 10' to 65' LT (Commercial Building, PESA Site 1314V3-8, 190 22<sup>nd</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, manganese, lead.

#### **5.2.6 ISGS #1314V3-7 (River Stone Moline Yard)**

Station 217+45 to Station 219+40 (Ramp RD-H), 0 to 25' RT and 0 to 85' LT (River Stone Moline Yard, PESA Site 1314V3-7, 75 23rd Street and 301 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene.

Station 216+35 to Station 217+45 (Ramp RD-H), 0 to 30' RT and 0 to 55' LT (River Stone Moline Yard, PESA Site 1314V3-7, 75 23rd Street and 301 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, VOCs.

Station 215+35 to Station 216+35 (Ramp RD-H), 0 to 30' RT and 0 to 55' LT (River Stone Moline Yard, PESA Site 1314V3-7, 75 23rd Street and 301 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)-anthracene.

Station 214+15 to Station 215+35 (Ramp RD-H), 0 to 55' RT and 0 to 55' LT (River Stone Moline Yard, PESA Site 1314V3-7, 75 23rd Street and 301 River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters:



benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, manganese.

**5.2.7 ISGS #1314V3-8 (Commercial Building)**

Station 212+35 to Station 214+85 (Ramp RD-H), 0 to 55' RT (Commercial Building, PESA Site 1314V3-8, 190 22<sup>nd</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead.

Station 213+30 to Station 214+15 (Ramp RD-H), 0 to 55' RT (Commercial Building, PESA Site 1314V3-8, 190 22<sup>nd</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, manganese, lead.

**5.2.8 ISGS #1314V3-11 (Vacant Land)**

Station 259+00 to Station 259+75 (existing I-74), 80' to 170' RT (Vacant Land, PESA Site 1314V3-11, 1900 block of River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 259+75 to Station 260+85 (existing I-74), 80' to 170' RT (Vacant Land, PESA Site 1314V3-11, 1900 block of River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

Station 259+00 to Station 259+75 (existing I-74), 60' to 180' LT (Vacant Land, PESA Site 1314V3-11, 1900 block of River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

**5.2.9 ISGS #1314V3-17 (Parking Lot)**

Station 263+00 to Station 264+00 (existing I-74 SB), 35' to 75' RT (Parking Lot, PESA Site 1314V3-17, 300 block of 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead, and manganese.

Station 264+00 to Station 264+75, (existing I-74 SB), 35' to 75' RT (Parking Lot, PESA Site 1314V3-17, 300 block of 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

**5.2.10 ISGS #1314V3-18 (Vacant Land)**

Station 327+50 to Station 328+50 (Ramp 6th C), 0 to 20' RT and 0 to 80' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline):

## 5 Conclusions and Recommendations

This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 327+00 to Station 328+00 (Ramp 6th-C), 120' to 310' RT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameter: benzo(a)pyrene.

Station 326+50 to Station 327+50 (Ramp 6th-C), 0 to 40' RT and 0 to 70' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 32+00 to Station 32+90 (proposed I-74), 0 to 45' RT and 0 to 10' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, manganese.

Station 429+30 to Station 430+05 (Ramp 6th-D), 0 to 25' RT and 0 to 120' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 430+05 to Station 432+20 (Ramp 6th-D), 0 to 30' RT and 0 to 130' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead, manganese.

Station 32+35 to Station 32+55 (proposed I-74), 35' to 70' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead and manganese.

Station 32+55 to Station 32+90 (proposed I-74), 10' to 70' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: arsenic, thallium and manganese.

Station 325+55 to Station 327+05 (Ramp 6th-C), 0 to 40' RT and 0 to 50' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene.

Station 430+05 to Station 430+65 (Ramp 6th-D), 0 to 30' RT and 0 to 130' LT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead, manganese.

Station 327+05 to Station 329+30 (Ramp 6th-C), 20' to 120' RT (Vacant Land, PESA Site 1314V3-18, 1900-2100 blocks of River Drive, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead, manganese.

#### **5.2.11 ISGS #1314V3-21 (BNSF Railroad)**

Station 35+10 to Station 36+25 (proposed I-74), 0 to 155' RT (BNSF Railroad, PESA Site 1314V3-21, 1900-2200 blocks of 4<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, manganese.

Station 35+10 to Station 36+25 (proposed I-74), 0 to 125' LT (BNSF Railroad, PESA Site 1314V3-21, 1900-2200 blocks of 4<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony, benzo(a)pyrene, lead, manganese.

#### **5.2.12 ISGS #1314V3-24 (John Deere)**

Station 36+25 to Station 37+00 (proposed I-74), 60' to 100' RT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene.

Station 37+00 to Station 37+85 (proposed I-74), 60' to 110' RT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony, arsenic, benzo(a)pyrene, lead.

Station 37+85 to Station 38+60 (proposed I-74), 65' to 165' RT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 38+25 to Station 39+35 (proposed I-74), 0 to 110' RT and 0 to 50' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, lead, manganese.

## 5 Conclusions and Recommendations

Station 39+35 to Station 40+00 (proposed I-74), 35' to 115' RT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony, benzo(a)pyrene, lead, manganese.

Station 5000+75 to Station 5001+70 (5th Avenue), 0 to 115' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 39+35 to Station 40+00 (proposed I-74), 35' to 50' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 429+80 to Station 430+75 (Ramp 6th-D), 0 to 40' RT and 0 to 70' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: arsenic.

Station 5001+70 to Station 5002+85 (5th Avenue), 0 to 150' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 330+75 to Station 332+85 (Ramp 6th-C), 0 to 35' RT and 0 to 40' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead.

Station 332+00 to Station 332+85 (Ramp 6<sup>th</sup>-C), 40' to 95' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead, manganese.

Station 332+85 to Station 333+00 (Ramp 6<sup>th</sup>-C), 50' to 85' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony, benzo(a)pyrene, lead, manganese.

Station 330+75 to Station 332+85 (Ramp 6<sup>th</sup>-C), 20' to 65' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony and lead.

Station 332+85 to Station 333+00 (Ramp 6<sup>th</sup>-C), 0 to 50' LT (John Deere, PESA Site 1314V3-24, 400 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony and lead.

**5.2.13 ISGS #1314V3-25 (Sivyer Steel Corp.)**

Station 409+90 to Station 410+75 (4<sup>th</sup> Avenue), 0 to 85' RT (Sivyer Steel Corp., PESA Site 1314V3-25, 400 21<sup>st</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead, manganese.

Station 410+75 to Station 412+25 (4<sup>th</sup> Avenue), 0 to 85' RT (Sivyer Steel Corp., PESA Site 1314V3-25, 400 21<sup>st</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 426+15 to Station 426+80 (Ramp 6th-D), 0 to 35' RT and 0 to 90' LT (Sivyer Steel Corp., PESA Site 1314V3-25, 400 21<sup>st</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead, manganese.

Station 426+80 to Station 427+65 (Ramp 6th-D), 0 to 35' RT and 0 to 20' LT (Sivyer Steel Corp., PESA Site 1314V3-25, 400 21<sup>st</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameter: manganese.

Station 36+20 to Station 39+35 (proposed I-74), 0 to 20' RT and 0 to 65' LT (Sivyer Steel Corp., PESA Site 1314V3-25, 400 21<sup>st</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony, benzo(a)pyrene, lead, manganese.

Station 36+15 to Station 36+40 (proposed I-74), 20' to 85' RT (Sivyer Steel Corp., PESA Site 1314V3-25, 400 21<sup>st</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: antimony, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead.

Station 408+90 to Station 409+90 (4<sup>th</sup> Avenue), 0 feet to 85' RT (Sivyer Steel Corp., PESA Site 1314V3-25, 400 21<sup>st</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

**5.2.14 ISGS #1314V3-32 (Commercial Buildings)**

Station 1904+70 to Station 1905+00 (proposed 19<sup>th</sup> Street), 40' to 90' LT (Commercial Buildings, PESA Site 1314V3-32, 1900 5th Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 1905+00 to Station 1905+25 (proposed 19<sup>th</sup> Street), 45' to 95' LT (Commercial Buildings, PESA Site 1314V3-32, 1900 5th Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 1905+25 to Station 1905+60 (proposed 19<sup>th</sup> Street), 0 to 95' LT (Commercial Buildings, PESA Site 1314V3-32, 1900 5th Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 1905+00 to Station 1905+25 (proposed 19<sup>th</sup> Street), 0 to 45' LT (Commercial Buildings, PESA Site 1314V3-32, 1900 5th Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 1904+70 to Station 1905+00 (proposed 19<sup>th</sup> Street), 0 to 40' LT (Commercial Buildings, PESA Site 1314V3-32, 1900 5th Avenue, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene.

Station 31+75 to Station 32+65 (19th Street) 0 to 50' LT (Commercial Buildings, PESA Site 1314V3-32, 1900 5th Avenue, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

**5.2.15 ISGS #1314V3-33 (Parking Lot)**

Station 5000+15 to Station 5001+15 (5<sup>th</sup> Avenue), 0 to 75' RT (Parking Lot PESA Site 1314V3-33, 1900 block of 5<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

Station 5001+15 to Station 5001+70 (5<sup>th</sup> Avenue), 0 to 100' RT and Station 269+30 to Station 270+25 (existing I-74), 60 feet to 120 RT (Parking Lot PESA Site 1314V3-33, 1900 block of 5<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

Station 5000+85 to Station 5001+15 (5<sup>th</sup> Avenue), 30' to 60' RT (Parking Lot PESA Site 1314V3-33, 1900 block of 5<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with

Article 669.09. COC sampling parameters: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)-pyrene.

Station 5000+55 to Station 5001+15 (5<sup>th</sup> Avenue), 60' to 90' RT (Parking Lot PESA Site 1314V3-33, 1900 block of 5<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead, manganese, VOCs.

Station 5000+15 to Station 5000+55 (5<sup>th</sup> Avenue), 30' to 60' RT (Parking Lot PESA Site 1314V3-33, 1900 block of 5<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 4999+25 to Station 5000+15 (5<sup>th</sup> Avenue), 0 to 60' RT (Parking Lot PESA Site 1314V3-33, 1900 block of 5<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 270+25 to Station 271+25 (existing I-74), 65' to 145' RT (Parking Lot PESA Site 1314V3-33, 1900 block of 5<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

#### **5.2.16 ISGS #1314V3-56 (Commercial Building)**

Station 303+10 to Station 304+10 (6th Avenue), 0 to 45' RT (Commercial Building, PESA Site 1314V3-56, 604-610 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 34+70 to Station 35+70 (19th Street), 0 to 55' LT (Commercial Building, PESA Site 1314V3-56, 604-610 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH and manganese.

Station 35+70 to Station 36+55 (19th Street), 0 to 55' LT (Commercial Building, PESA Site 1314V3-56, 604-610 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

#### **5.2.17 ISGS #1314V3-57 (Old Chamber Building)**

Station 36+55 to Station 37+50 (19th Street), 0 to 55' LT (Old Chamber Building, PESA Site 1314V3-57, 622 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene.

Station 209+65 to Station 211+50, (7th Avenue), 0 to 85' LT (Old Chamber Building, PESA Site 1314V3-57, 622 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead and manganese.

Station 211+50 to Station 212+60 (7th Avenue), 0 to 85' LT (Old Chamber Building, PESA Site 1314V3-57, 622 19<sup>th</sup> Street, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

#### **5.2.18 ISGS #1314V3-59 (Residence)**

Station 305+00 to Station 306+20 (6th Avenue), 0 to 45' RT (Residence, PESA Site 1314V3-59, 1924 6<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

#### **5.2.19 ISGS #1314V3-60 (Vacant Lot)**

Station 644+95 to Station 645+80 (Ramp 7th-A), 0 to 115' RT and 0 to 30' LT (Vacant Lot, PESA Site 1314V3-60, 2000 block of 6<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and lead.

Station 216+70 to Station 217+75 (7th Avenue), 0 to 100' LT (Vacant Lot, PESA Site 1314V3-60, 2000 block of 6<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 309+85 to Station 310+70 (6<sup>th</sup> Avenue), 0 to 150' RT (Vacant Lot, PESA Site 1314V3-60, 2000 block of 6<sup>th</sup> Avenue, Moline): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene.

### **5.3 Estimated Groundwater Management Volumes and Costs**

#### **5.3.1 ISGS #1314V3-1 (IDOT ROW)**

Iron and manganese were identified as COCs in groundwater at the site. Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-01-B01. Excavation for storm sewer installation in the vicinity of the boring is anticipated to encounter impacted groundwater.

Based on the COCs detected in groundwater (inorganics), it is anticipated that any groundwater encountered during storm sewer installation will be managed within the excavation. Consequently, E & E has not included an estimated cost for off-site management of impacted groundwater.



**5.3.2 ISGS #1314V3-2 (Mississippi River)**

Iron, lead, and manganese were identified as COCs in groundwater at the site. Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-02-B01. Excavation for storm sewer installation in the vicinity of the boring is anticipated to encounter impacted groundwater.

Based on the COCs detected in groundwater (inorganics), it is anticipated that any groundwater encountered during storm sewer installation will be managed within the excavation. Consequently, E & E has not included an estimated cost for off-site management of impacted groundwater.

**5.3.3 ISGS #1314V3-4 (City of Moline, Water Department)**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, iron, lead and manganese were identified as COCs in groundwater at the site. Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-04-B01. Excavation for storm sewer installation in the vicinity of the boring is anticipated to encounter impacted groundwater.

E & E has estimated a volume of impacted groundwater that will require proper handling and disposal during excavation in the vicinity of the boring. As shown on Table 4-6, E & E estimates that approximately 3,553 gallons of water will require off-site management as special waste. The estimated cost for disposal of the impacted groundwater is included in Table 5-1.

**5.3.4 ISGS #1314V3-6 (Vacant Land)**

Iron, lead, and manganese were identified as COCs in groundwater at the site. Groundwater was encountered at a depth of 11 feet bgs in boring 1314V3-06-B10. Excavation for bridge pier and storm sewer installation in the vicinity of the boring is anticipated to encounter impacted groundwater.

Based on the COCs detected in groundwater (inorganics), it is anticipated that any groundwater encountered during pier and storm sewer installation will be managed within the excavation. Consequently, E & E has not included an estimated cost for off-site management of impacted groundwater.

**5.3.5 ISGS #1314V3-7 (River Stone Moline Yard)**

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, iron, lead, and manganese were identified as COCs in groundwater sampled from boring 1314V3-07-B01. Groundwater encountered in boring 1314V3-07-B02 was not sampled, but exhibited sheen indicative of contamination. Groundwater was encountered at a depth of 6 feet bgs in boring 1314V3-07-B01, and 5 feet bgs in boring 1314V3-07-B02. Excavation for storm sewer installation in the vicinity of the borings is anticipated to encounter impacted groundwater.

E & E has estimated a volume of impacted groundwater that will require proper handling and disposal during excavation in the vicinity of the borings. As shown on Table 4-6, E & E estimates that approximately 89,766 gallons of water will require off-site management as special waste. The estimated cost for disposal of the impacted groundwater is included in Table 5-1.

## **5.4 Recommendations**

### **5.4.1 Additional Investigations**

E & E does not recommend further investigation for this project. Soil and groundwater in the project area have been characterized with regard to IDOT construction activities. Additional sampling may be required if soil is encountered that exhibits odor or discoloration indicative of contamination during construction excavation activities in those areas, or if activities extend beyond the previously investigated area. If groundwater exhibiting odor or discoloration is encountered during construction activities that hasn't been characterized in this report, the water should be sampled to determine proper management requirements.

### **5.4.2 Prevention of Accelerated Contaminant Migration**

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

Impacted groundwater is anticipated to be encountered during storm sewer installation at ISGS #1314V3-7 (River Stone Moline Yard). PAHs and metals were detected in groundwater at boring 1314V3-07-B01, and sheen was observed on groundwater at boring 1314V3-07-B02. Backfill plugs are recommended at the site in conjunction with the storm sewer excavation in order to prevent migration of impacted groundwater along the storm sewer backfill materials. Costs for backfill plugs are included for the site in Table 5-1.

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

The COCs detected in site soil were also compared with TACO Tier 1 ROs for construction worker exposure. Arsenic and thallium were detected at 1314V3-18 (Vacant Land), and lead was detected at 1314V3-25 (Sivyer Steel Corp.) at concentrations above TACO Tier 1 ROs for construction worker exposure. The affected borings and detected concentration are presented in Table 5-2.

Although VOCs were not detected at concentrations above TACO Tier 1 ROs for construction worker exposure, VOCs were detected during PID headspace screening at ISGS #1314V3-7 (River Stone Moline Yard) and ISGS #1314V3-33 (Parking Lot). If soil unearthed during excavation activities exhibits PID readings, odors, or discoloration indicative of contamination, E & E recommends that the soil is sampled to determine appropriate worker protection measures during con-



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## **5 Conclusions and Recommendations**

struction activities. The health and safety of construction workers are the sole responsibility of the construction contractor, and Occupational Safety and Health Administration (OSHA) regulations should be adhered to during construction activities.

**Table 5-1 Estimated Disposal Costs for Impacted Soil within IDOT Construction Areas  
General Cost Breakdown for Construction Activities  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Site	Pay Item/Cost per Unit														Total Cost (Rounded to nearest dollar)
	SPECIAL WASTE PLANS AND REPORTS <sup>a</sup> \$342,076.00 lump sum		NON-SPECIAL WASTE DISPOSAL <sup>b</sup> \$60.00 per cubic yard		NON-SPECIAL WASTE DISPOSAL <sup>c</sup> \$60.00 per cubic yard		SPECIAL WASTE GROUNDWATER DISPOSAL \$0.30 per gallon		BACKFILL PLUGS <sup>d</sup> \$56.04 per cubic yard		UNDERGROUND STORAGE TANK (UST) REMOVAL <sup>e</sup> \$5,000.00 lump sum		SOIL DISPOSAL ANALYSIS <sup>f</sup> \$875.00 each		
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
ISGS #1314V3-1 (IDOT ROW)	1	\$65,891.11	358	\$21,480.00	16,062	\$963,720.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$1,051,966.00
ISGS #1314V3-2 (Mississippi River)	1	\$659.11	112	\$6,720.00	0	\$0.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$8,254.00
ISGS #1314V3-4 (City of Moline, Water Department)	1	\$403.11	48	\$2,880.00	0	\$0.00	3,553.0	\$1,065.90	--	\$0.00	--	\$0.00	1	\$875.00	\$5,224.00
ISGS #1314V3-6 (Vacant Land)	1	\$106,775.11	24,513	\$1,470,780.00	2,128	\$127,680.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$1,706,110.00
ISGS #1314V3-7 (River Stone Moline Yard)	1	\$43,259.11	10,762	\$645,720.00	0	\$0.00	89,766.0	\$26,929.80	106.7	\$5,977.80	--	\$0.00	1	\$875.00	\$722,762.00
ISGS #1314V3-8 (Commercial Building)	1	\$3,251.11	365	\$21,900.00	395	\$23,700.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$49,726.00
ISGS #1314V3-11 (Vacant Land)	1	\$239.11	0	\$0.00	7	\$420.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$1,534.00
ISGS #1314V3-17 (Parking Lot)	1	\$727.11	51	\$3,060.00	78	\$4,680.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$9,342.00
ISGS #1314V3-18 (Vacant Land)	1	\$73,931.11	5,356	\$321,360.00	13,074	\$784,440.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$1,180,606.00
ISGS #1314V3-21 (BNSF Railroad)	1	\$2,687.11	100	\$6,000.00	519	\$31,140.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$40,702.00
ISGS #1314V3-24 (John Deere)	1	\$11,743.11	2,059	\$123,540.00	824	\$49,440.00	--	\$0.00	--	\$0.00	1	\$5,000.00	1	\$875.00	\$190,598.00
ISGS #1314V3-25 (Sivyer Steel Corp.)	1	\$9,031.11	998	\$59,880.00	1,207	\$72,420.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$142,206.00
ISGS #1314V3-32 (Commercial Building)	1	\$587.11	0	\$0.00	94	\$5,640.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$7,102.00
ISGS #1314V3-33 (Parking Lot)	1	\$855.11	0	\$0.00	161	\$9,660.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$11,390.00
ISGS #1314V3-56 (Commercial Building)	1	\$1,355.11	39	\$2,340.00	247	\$14,820.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$19,390.00
ISGS #1314V3-57 (Old Chamber Building)	1	\$5,823.11	0	\$0.00	1,403	\$84,180.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$90,878.00
ISGS #1314V3-59 (Residence)	1	\$2,695.11	0	\$0.00	621	\$37,260.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$40,830.00
ISGS #1314V3-60 (Vacant Lot)	1	\$12,163.11	1,307	\$78,420.00	1,681	\$100,860.00	--	\$0.00	--	\$0.00	--	\$0.00	1	\$875.00	\$192,318.00

Notes:

<sup>a</sup> Special waste plans assume the following documents and costs are required - 1) Site health and safety plan at \$700; 2) Site contamination operation plan at \$700; 3) Erosion control plan at \$700; and 4) one final environmental construction report at \$1,700. The total cost for documents described (\$3,800) is apportioned equally between the 18 potential waste properties listed above and assumes the activities will occur during one mobilization. This line item also includes labor, expenses, and equipment for air monitoring field oversight for a time period of approximately 423 days at \$800 per day (\$338,276.00 total); and is based on an excavation and loading rate of approximately 200 yd<sup>3</sup> per day.

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

<sup>c</sup> Although the disposal costs are estimated as a non-special waste, soil in this category includes soil that may be managed to a CCDD facility or USFO, or soil that may be managed as uncontaminated soil, but not at a CCDD facility or USFO due to pH.

<sup>d</sup> The estimated cost assumes that concrete backfill plugs will be installed at 50-foot intervals along the trench. Backfill plugs are to be 4 feet long measured parallel to the trench and extend the full trench width and depth. When the sewer trench is less than 50 feet, a plug will be placed along each end of the trench to prevent contaminant migration.

<sup>e</sup> The UST removal cost estimate is based on a UST that does not have a declared release.

<sup>f</sup> Disposal Analysis Methods: EPA Methods 1311, 8260B, 8270C, 8081, 8151A, 9045C, 1030, and 9095A.

5-34

**Table 5-2 Contaminants of Concern Above TACO Tier 1 Remediation Objectives  
for Construction Worker Exposure  
FAI 74 (Interstate 74), Contract No. 64C08  
Moline, Rock Island County, Illinois**

Site	Boring	Sample Depth Interval (feet)	Contaminant of Concern	Detected Concentration (mg/kg)	TACO Tier 1 Soil RO for Construction Worker Exposure	
					Ingestion (mg/kg)	Inhalation (mg/kg)
1314V3-18 (Vacant Land)	1314V3-19-B09	0-8	Arsenic	220	61	25,000
			Thallium	300	160	--
1314V3-25 (Sivyer Steel Corp.)	1314V3-25-B06	0-8	Lead	1,900	700	--

Key:

mg/kg = Milligrams per kilogram.

RO = Remediation Objective.

TACO = Tiered Approach to Corrective Action Objectives.

# 6

## References

Ecology and Environment, Inc., (E & E), November 11, 2016, FINAL *Preliminary Site Investigation Work Plan, FAI 74 (Interstate 74), Moline, Rock Island County, Illinois*, prepared by Ecology and Environment, Inc., Chicago, Illinois.

Illinois State Geological Survey (ISGS), September 7, 2016, *Preliminary Environmental Site Assessment, FAI 74 (I-74), 23<sup>rd</sup> Avenue to Mississippi River, Moline, Rock Island County; Davenport East, Milan, Coal Valley, and Silvis quadrangles (USGS 7.5 minute topographic maps), T17N, R1W, Sections 4, 5, and 9; T18N, R1W, Sections 27, 29 and 32 - 34.*

# A

## ISGS PESA Excerpts

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

**Site 1314V3-1 (1314-37, 1314V-2, 2708-66, 1314V2-1). ROW, mile markers 0 to 2. 5, Moline (I-74 from the Mississippi River to 29th Street; I-74 stations 22+00 IL (6748 +25 IA) RT and LT to 49+00 IL RT and LT; Attachment 2, pages 1-12).** This site is occupied by I-74 and its ROW. Natural gas pipeline markers were observed in the southeast and southwest corner of the I-74 and 27th Street intersection and near the intersection of 18th Avenue and 19th Street, indicating two pipelines pass through this site in east-west directions.

Sanborn maps from 1886 through 1906 did not have any coverage of this site. Sanborn maps from 1912 depicted residences and vacant land from 7th Avenue to 9th Avenue. The remainder of the site south of 9th Avenue was not covered. Aerial photographs from 1938 through 1964 depicted residences and vacant lots along the I-74 corridor south of 7th Avenue. Aerial photographs from 1938 through 1958 depicted a different two-lane bridge across the Mississippi River extending north from River Drive. Sanborn maps from 1950 through 1970 depicted residences and vacant lots from 7th Avenue to 9th Avenue and from 12th Avenue to 17th Avenue. The remainder of this site was not covered. Aerial photographs from 1964 depicted two different bridges extending from River Drive. Aerial photographs from 1970 depicted I-74 under construction. Aerial photographs from 1980 and later depicted I-74 with its current configuration.

The following bridges are present along I-74 in the project area, generally from north to south. Location references and construction dates are taken from the IDOT bridge information website. Where more than one year is present, the first year is the original construction date and later years are reconstruction dates. Map references are to Attachment 2. All of the bridges below were painted.

IDOT structure number	Location	Construction date	Map location, Attachment 2
S. N. 081-0142	I-74 approach structure over Mississippi River	1975	Page 1, 1a
S. N. 081-0143	I-74 approach structure over Mississippi River	1975	Page 1, 1b
S. N. 081-0111	I-74 S. B. off ramp over River Drive (1 km [0. 6 mi] south of Iowa line)	1974	Page 3, 1c
S. N. 081-0112	I-74 N. B. on ramp over River Drive (1 km [0. 6 mi] south of Iowa line)	1974	Page 3, 1d
S. N. 081-0113	I-74 S. B. off ramp over 6th Avenue (1. 3 km [0. 8 mi]) south of Iowa line)	1975	Page 5, 1e
S. N. 081-0114	I-74 N. B. on ramp over 6th Avenue (1. 3 km [0. 8 mi] south of Iowa line)	1975	Page 5, 1f
S. N. 081-0115	I-74 S. B. on ramp over 19th Street (1. 8 km [1. 1 mi] south of Iowa line)	1975	Page 8, 1g
S. N. 081-0099	I-74 S. B. over 19th Street (0. 8 km [0. 5 mi] north of 23rd Avenue)	1975	Page 8, 1h
S. N. 081-0100	I-74 N. B. over 19th Street (0. 8 km [0. 5 mi] north of 23rd Avenue)	1975	Page 8, 1i
S. N. 081-0116	I-74 N. B. off ramp over 19th Street (1. 8 km [1. 1 mi] south of Iowa line)	1975/2011	Page 8, 1j



S. N. 081-0101	I-74 S. B. over 12th Avenue (1. 1 km [0. 7 mi] north of 23rd Avenue)	1975	Page 8, 1k
S. N. 081-0102	I-74 N. B. over 12th Avenue (1. 1 km [0. 7 mi] north of 23rd Avenue)	1975	Page 8, 1l
S. N. 081-0103	I-74 N. B. over 19th Street (0. 3 km [0. 2 mi] north of 23rd Avenue)	1971	Page 9, 1m
S. N. 081-0104	I-74 S. B. over 19th Street (0. 3 km [0. 2 mi] north of 23rd Avenue)	1971	Page 9, 1n
S. N. 081-0105	23rd Avenue over I-74 (2. 4 km [1. 5 mil] south of IL 92)	1970	Page 10, 1o
S. N. 081-0107	27th Street over I-74 (0. 8 km [0. 5 mi] south of 23rd Avenue)	1971	Page 11, 1p
S. N. 081-0108	19th Street over I-74 (1 km [0. 6 mi] south of 23rd Avenue)	1971	Page 11, 1q

This site appears numerous times on multiple regulatory lists. Incidents will be discussed in geographic order below from north to south. Their locations are described below and shown on Attachment 2 where they are designated with a lower case letter. No evidence of spills was observed during fieldwork for this project, and the exact locations of the spills discussed in IEMA and ERNS records below are unknown.

Under the name "IDOT" and the address "Rock Island Co Bridge&hwy", this site appears on the BOL list (IEPA #1618995006). According to IEPA files, in May 1998, this site was registered by IDOT to generate between 100 kg/mo (220 lb/mo) and 1,000 kg/mo (2,200 lb/mo) of wastes containing lead from the maintenance of the I-74 approach structures over the Mississippi River (S. N. 081-0142 and S. N. 081-0143). No further information was available in IEPA files regarding IEPA #1618995006.

Under the name "Reynolds Service Corp" and the address "I-74 bridge/over Miss Rvr", this site appears on the IEMA non-LUST list (IEMA #982762). According to IEMA records, in November 1998, a release of 114 liters (30 gallons) of hydraulic oil was reported following a crane accident at this location. The general location of the release is depicted as Site 1314V3-1a on Attachment 2, page 1.

Site 1314V3-1r (Attachment 2, page 5). Sanborn maps from 1886 depicted a carpentry shop at the northwest corner of 6th Avenue and 20th Street.

Site 1314V3-1s (Attachment 2, page 6). City directories listed a photography studio at 612 20<sup>th</sup> Street in 1939.

Site 1314V3-1t (Attachment 2, page 8). Under the name "Molo Quint LLC" and the address "on the off ramp from westbound I-74 to 7th St", this site appears on the IEMA non-LUST list (IEMA #H-2009-1298). Under the name "Molo" and the address "Intersection of I-74 and 7th Street", this site appears on the ERNS list (ERNS #924335). According to IEMA records, a release of 1,893-liters (500-gallon) of diesel was reported from a semi-truck at this location in November 2009. According to ERNS records, a release of 757-liters (200-gallons) of diesel was reported at this location in November 2009.

Under the name "IDOT" and the address "Rock Island Co Bridge&hwy", this site appears on the BOL list (IEPA #1618995006). According to IEPA files, in May 1998, this site was registered by IDOT to generate between 100 kg/mo (220 lb/mo) and 1,000 kg/mo (2,200 lb/mo) of wastes containing lead from the maintenance of the I-74 overpasses at 19th Street (S. N. 081-0099, S. N. 081-0100, S. N. 081-0105, S.

N. 081-0115, and S. N. 081-0116). No further information was available in IEPA files regarding IEPA #1618995006.

Site 1314V3-1u (Attachment 2, page 10). During fieldwork for ISGS# 1314V in 2010, a temporary parking and construction materials storage area was observed north of 20th Avenue and east of 18th Street-C for construction materials. Equipment on the site included construction vehicles and two 1,136-liter (300-gallon) plastic ASTs with unknown contents. A mobile office was also present on site. The ASTs described above were not present during the fieldwork for this project.

Site 1314V3-1v (Attachment 2, page 11). Under the name "B&J Transportation" and the address "I-74 MM 2. 2", this site appears on the BOL list (IEPA #1610255105). Under the name "B&J Transportation" and the address "I-74 E MM 2. 5", this site appears on the BOL list (IEPA #1610453003). According to IEPA files, in August 2001, B&J Transportation registered with IEPA as a generator of an unspecified types and amounts of waste. No further information was found in IEPA files regarding IEPA #16102551015 and 1610453003.

Potential hazards associated with carpentry shops and the wood working industry include VOCs and metals. Potential hazards associated with photography businesses include VOCs and metals.

In soil gas taken from two previous boreholes completed at this site for ISGS #1314 in 2002 near Site 1314V3-1t, no VOCs were detected. See ISGS #1314 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The exact locations of the spills discussed in IEMA and ERNS records are unknown.
- The contents of the ASTs observed during fieldwork in 2010 are unknown.
- Evidence from aerial photographs and IDOT information indicates that these bridges have been present since before 1985, when lead paint was no longer used to paint bridges. These bridges are been painted. It is unknown if lead paint is present at these structures.

The structure on this site is painted and may contain friable asbestos-containing materials as a compound of painting or patching compounds. Evidence from aerial photographs and IDOT information indicates that these bridges have been present since before 1985, when lead paint was no longer used to paint bridges. These bridges are been painted. It is unknown if lead paint is present at these structures.

The following RECs were identified at this site: Spills; former ASTs; evidence of chemical use.

The following de minimis conditions were identified at this site: Natural gas pipeline; potential ACM.

**Site 1314V3-2 (1314-1, 1314V-1, 1314V2-2). Mississippi River, near I-74 mile marker 1, Moline (northwest and northeast corners of 1st Avenue and Kone Court; no stationing given; Attachment 2, page 1).** This site is occupied by a river.

Sanborn maps from 1886 and later depicted a river. Aerial photographs from 1938 and later depicted a river.

According to the 2016 IEPA Illinois Integrated Water Quality report, this segment of the Mississippi River has been assessed as "not supporting" in the categories of fish consumption, and primary contact. Causes of non-attainment were listed as mercury, PCBs, and fecal coliform. Sources were listed as atmospheric deposition of toxics and unknown sources. This river has been assessed as "fully support-

ing” in the categories of aquatic life, public and food processing water supplies, and aesthetic quality. This river has not been assessed for secondary contact.

Information in USEPA and IEPA files reviewed for Site 1314V3-A (USEPA #IL5210021833; IEPA #1618130001) pertained to this site. According to USEPA files, in 2001, surface water samples were collected from along the west side of the I-74 bridge (see Attachment 3 for the location of water sample PW-033). VOCs, PAHs, and metals were detected in unspecified levels, but elevated from other water samples collected downstream. The status of impacted surface water at this site is unknown. No further information impacting this project was found in USEPA and IEPA files for USEPA #IL5210021833 and IEPA #1618130001.

This site appears on the ERNS list three times. No evidence of spills was observed during fieldwork for this project, and the exact locations of spills at this site is unknown.

Under the name “Schadler River Excursion” and the address “Interstate 70 bridge going into Moline”, this site appears on the ERNS list (ERNS #59181). According to ERNS records, in April 1987, an unknown type and amount of oil was observed on the river. No remedial action was taken in connection with this release. No further information was available in ERNS records regarding ERNS #59181.

Under the name “Dellitt Trucking Inc” and the address “East of I-74 bridge on Mississippi River bank”, this site appears on the ERNS list (ERNS #397571). According to ERNS records, in August 1997, approximately 23 liters (6 gallons) of hydraulic oil were released into the Mississippi River from a ruptured hydraulic line. No further information was available from ERNS records regarding ERNS #577248.

Under the name “River Stone Group” and the address “200 23rd St. ”, this site appears on the ERNS list (ERNS #577248). According to ERNS records, on August 21, 2001, approximately 0.5 liters (0.12 gallons) of hydraulic oil were released into the Mississippi River from a sand barge. No further information was available in ERNS records regarding ERNS #577248.

In two boreholes and three surficial soil samples completed at this site for ISGS #1314 in 2002, no VOCs or metals were detected. See ISGS #1314 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The status of impacted surface water at this site is unknown.
- The exact location of spills at this site are unknown.

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

The following RECs were identified at this site: Non-attainment of water quality; spills; potentially impacted surface water.

No de minimis conditions were identified at this site.

**Site 1314V3-4 (1314-A, 1314-B, 1314-2, 1314V-3, 1314V2-4). City of Moline Water Division, 30 18th Street, Moline (southeast corner of 18th Street and 1st Avenue; no stationing provided; Attachment 2, page 1).** This site is occupied by a water treatment plant. Site features included a main building with a smaller building to its south. A water tower was present on the northwest portion of the site. Two ASTs were observed along the west side of the small building. The contents of these ASTs are unknown.

A carbon dioxide AST was observed along the south side of the main building. Two USTs were observed north of the buildings, approximately 46 m (181 ft) south of the Mississippi River bank and 89 m (292 ft) west of 19th Street. No vent pipes were observed in association with these USTs. Three pad-mounted transformers were observed southwest of the buildings, and three pad-mounted transformers on the southwest corner of this site. Monitoring wells MW-1, EV-98-1, EV-98-2, and EV-98-3 labeled on Attachment 4 were not present.

The following information has been modified from ISGS #1314V:

Along the north side of the main building were two approximate 0.5 m (1.5 ft)-diameter pipes protruding from the ground. Along the east side of the main building was a larger pipe that appeared to be related to the natural gas pipelines into the building. Near the northwest corner of the building was a vent pipe leading inside the building.

Only one large-diameter protruding pipe in the ground was noted during fieldwork for this project. The pipe appeared to be a component of the water intake system at this facility.

Sanborn maps from 1886 through 1906 depicted a lumber storage yard along the river, and portions of a lumber storage shed on the south side of this site. The date of first development is unknown. Sanborn maps from 1912 depicted a park at the current buildings location, and railroad tracks south of the buildings. On the 1938 through 1980 aerial photographs, and on the 1950 through 1970 Sanborn maps, a portion of the main building was present. On Sanborn maps, the building was labeled as containing the Municipal Water Works. On the 1950 Sanborn map, a masonry block factory was depicted at the southwest corner of the site. On the 1957 Sanborn map, a foundry was depicted at the southwest corner. On the 1988 through 2002 aerial photographs, the current water treatment plant building was present. On the 2006 and later aerial photographs, the alignment of 18th Street had been change, and the site had its current configuration. City directories from 1891 through 1898 listed individual names in the historical address range along 1st Avenue. City directories from 1906 through 1939 listed Sylvan Park. City directories from 1945 through 1958 listed City of Moline Water Plant in the historical address range of this site. City directories from 1965 through 2014 listed the City of Moline Water Plant at the current address.

Under the name "City of Moline Water Plant" and the address "30 18th Street", this site appears on the UST list (OSFM #3011710) with three registered USTs. According to OSFM files, one 3,785-liter (1,000-gallon) diesel UST and one 2,082-liter (550-gallon) gasoline UST are currently in use. See above for the locations of these USTs. One gasoline UST was removed in February 1989. This UST was located in the general location as the current USTs; however, the exact location of the former UST is unknown.

Under the name "Moline, City of Water Dept" and the address "3018 St", this site appears on the BOL list (IEPA #1610455122). According to IEPA files, in 1994, the City of Moline Water Department registered with the IEPA as a generator of unspecified types and amounts of waste. In 1996, the City of Moline Water Department was removed as a generator of special waste. The waste consisted of small rocks and pebbles with hydrated lime, used for water treatment. According to IEPA files, the waste stream was analyzed and determined to be non-toxic, and therefore would no longer be regulated as a special waste as of 1996. No further information was found in IEPA files regarding IEPA #1610455122.

Under the name "Moline, City of" and the address "1800 1st Ave", this site appears on the BOL list (IEPA #1610655161). Under the same IEPA number, the name "Moline Water Plant" and the address "1800 1st Ave." this site appears on the state brownfields list. Under the same IEPA number, the name "City of Moline" and the address "1800 1st Ave." this site appears on the SRP list. According to IEPA files, an investigation of the area south of the main building was completed by the site consultants Missman, Stanley & Associates (MSA) for the City of Moline. During a Phase I ESA that was conducted by MSA in 1998, potentially impacted soil was identified. In 1999 and 2001, several rounds of soil and groundwater took place. These investigations included the completion of the several soil borings and the installation of one permanent monitoring and three temporary monitoring wells (MW-1, EV-98-1, EV-98-2, and EV-98-3 on Attachment 4). None of these wells were present during the fieldwork for this project. Depth to groundwater was approximately 2.4 to 2.7 m (8 to 9 ft), and the groundwater flow direction was deter-

mined to be toward the north. Soil and groundwater samples were analyzed for VOCs, SVOCs, PNAs, and metals. Various metals and a PNA were detected above TACO Tier 1 commercial/industrial SROs. Various metals, PNAs, and VOCs were detected above TACO Tier 1 Class I GROs.

In 2003, this site entered the Site Remediation Program in order to obtain a comprehensive NFR letter. MSA conducted Tier 2 modeling that predicted that any potentially impacted groundwater was not likely to migrate offsite, and proposed to manage residual impact through the use of AULs. The modeled extent of impacted groundwater is depicted in Attachment 4. Based on this information, on March 24, 2004, IEPA issued a comprehensive NFR letter with the following AULs: industrial/commercial land use restriction, engineering controls in the form of an asphalt barrier; groundwater use restriction, and notification of potentially affected property owners. No list of affected property owners was found in IEPA files.

The IEPA conducted an inspection of this site on July 19, 2012 to check for compliance with the AULs specified in the NFR letter. The site was found to be in compliance. No further information was available in updated IEPA files regarding IEPA #1610655161.

Potential hazards associated with foundries and welding shops include metals and VOCs. Potential hazards associated with concrete factories include acids and VOCs.

The following information has been modified from ISGS #1314:

A magnetometer survey was conducted on July 22, 2002. The area surveyed was the entire undeveloped area between 19th Street on the east and a building on the west and between 1st and 2nd Avenues. One magnetic anomaly was detected, having dimensions of approximately 2 m (6.6 ft) parallel with 19th Street and 1.5 m (5 ft) parallel with 2nd Avenue. The anomaly was centered on a point approximately 5.5 m (18 ft) west of 19th Street and 37 m (121 ft) north of 2nd Avenue.

It is unknown if the detected anomaly is associated with an UST, and its status is unknown.

In one of three boreholes completed at this site for ISGS #1314 in 2002, VOCs were detected. See ISGS #1314 for details. In two boreholes completed at this site for PSI Weston #8 work order #40 in 2014, SVOCs and metals were detected in soil and/or groundwater. See PSI Weston #8 work order #40 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, pumps or dispensers, drums, monitoring wells, solid waste, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The contents of two of the three ASTs unknown.
- The date of first development is unknown.
- The exact location of the former UST is unknown.
- It is unknown if the detected anomaly is associated with an UST, and its status is unknown.

These buildings may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in these buildings. Water towers are commonly painted with lead paint, and this material may flake off the towers and enter soil beneath the tower. Therefore, lead paint may be present related to the water tower at this site.

The following RECs were identified at this site: USTs; former UST; potential UST(s); ASTs; former monitoring wells; evidence of chemical use; impacted soil and groundwater; VOCs detected in previous ISGS testing.

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

**Site 1314V3-5 (1314-3, 1314-6, 1314V-4, 1314V2-5). Industrial building, 1 Kone Court, Moline (north-east, northwest, and southwest corners of Kone Court and 19th Street; no stationing provided; Attachment 2, page 1).** This site is occupied by a large, vacant, industrial building with parking lots to its southwest that extend beneath I-74. This site was surrounded by a fence; therefore, a complete site inspection could not be conducted. A pad-mounted transformer and a natural gas vent pipe were observed on the northwest corner of this site. A natural gas pipeline marker was observed on the north-west corner of Kone Court and 19th Street. Additional natural gas pipeline markers were observed east and west of this site, indicating a pipeline passes through this site in an east-west direction.

Sanborn maps from 1886 through 1906 depicted the Dimock Gould and Co. lumber yard on the south and east portions of this site. The date of first development is unknown. Sanborn maps from 1886 through 1970 depicted a railroad siding crossing the site from southeast to northwest. Sanborn maps from 1886 through 1898 depicted residences on the southwest part of the site. Sanborn maps from 1912 depicted a furnace works and most of the lumber yard to the south and east was depicted as vacant. Sanborn maps from 1898 through 1957 depicted the western portion of this site (now utilized as the parking lots) as occupied by various commercial and industrial occupants, including a cigar factory (1898-1906), a junk dealer (1906-1957), a candy factory (1912), a creamery (1950-1970), Stromberg Becker Manufacturing Company (1950-1957), and a coal dealer (1967-1970). Aerial photographs from 1938 and later depicted industrial buildings similar to the 1912 through 1957 Sanborn maps and some residential buildings. Sanborn maps from 1950 through 1970 depicted the northern end of the parking areas as Sylvan Park. Sanborn maps from 1957 through 1970 depicted Montgomery Elevator Co. (later known as Montgomery Kone Co. and Kone Co.) on the north side of this site. A "buried gasoline tank" was depicted on the 1957 Sanborn map along the north side of the Montgomery Elevator building, approximately 75 m (246 ft) east of Kone Court and 125 m (410 ft) north of 19th Street. This location is currently beneath the building of the former Kone Co. The status of this UST is unknown. Sanborn maps from 1957 through 1970 depicted Moline Tool Company, consisting of several buildings, south of the elevator company. Site features included a machine shop on the north side of these buildings. Aerial photographs from 1951 to 1970 depicted a junkyard near the 19th Street frontage between 1st and 2nd Avenue. Aerial photographs from 1970 through 1988 depicted a vacant lot on the west side and the current buildings present. Aerial photographs indicates that the railroad siding in this area was removed between 1970 and 1988. Aerial photographs from 1994 and later depicted the current buildings.

City directories from 1891 through 1911 either listed individual names or had no listings within the historical address range for this site. City directories from 1917 listed Moline Engineering Company and a junk dealer from 1917 through 1982 within the historical address range for this site. City directories listed E. H. Wilson Manufacturing and A.G. Abraham Company in 1925 within the historical address range for this site. City directories listed a trucking company from 1939 through 1945 within the historical address range for this site. City directories listed Montgomery Elevator, a salvage and lumber business, and a print shop in 1982 within the historical address range for this site. City directories listed Montgomery Elevator at 1 Montgomery Court from 1987 through 1992. City directories listed Kone Co. from 2004 through 2011 at the current address. During site inspections for ISGS #1314 in 2002 and for ISGS #1314V in 2010, the site was occupied by Kone Co.

Under the name "Kone Inc" and the address "1 Montgomery Ct", this site appears on the BOL list (IEPA #1610455068). According to IEPA files, this address pertains to this site. In 2000, Kone Inc. registered with IEPA as a generator of an unspecified amounts of non-halogenated solvents and stillbottoms. In October 2006, a site inspection was conducted due to a citizen complaint that the company was improperly disposing of computers. No violations were found during the inspection. No further information was present in IEPA files regarding IEPA #1610455068.

Potential hazards associated with print shops and lithography, and with metal working and machining, and coal yards include VOCs and metals. Potential hazards associated with junkyards include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; and used lead-acid batteries.

No UST information was available from the Moline Fire Department for this site.

In one of six boreholes completed at this site for ISGS #1314 in 2002, VOCs were detected. In two soil samples collected at this site for ISGS #1314 in 2002, metals were detected and no PCBs were detected. See ISGS #1314 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- This site was surrounded by a fence; therefore, a complete site inspection could not be conducted.
- The date of first development is unknown.
- The status of the UST depicted on Sanborn maps is unknown.

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

The following RECs were identified at this site: Potential UST; evidence of former chemical use; VOCs and metals detected in previous ISGS testing.

The following de minimis conditions were identified at this site: Natural gas pipeline; transformers; potential ACM and lead paint.

**Site 1314V3-6 (1314-7, 1314V-5, 2708-64, 1314V2-6). Vacant land, 2020 River Drive, Moline (northwest corner of 22nd Street and River Drive; approximate River Drive station 3012+00 LT; Attachment 2, page 1).** This site is occupied by vacant grassy and wooded land. Concrete foundations were observed on the south and west portions of this site. A monitoring well was observed in the general area of MW-41 as depicted on Attachment 7. MW-1, MW-9, MW-12, MW-14, MW-16, MW-18, MW-20, MW-21, MW-33, MW-34, MW-35, MW-37, MW-36, MW-38, MW-39, and MW-40 as depicted on Attachment 7 and 8 were not observed. Soil piles were also observed on the west and northeast side of this site. A pole-mounted transformer was observed on the southeast corner of this site. A natural gas pipeline marker was observed on the southeast corner of the site. Additional natural gas pipeline markers were observed east of this site, indicating a pipeline passes through this site in an east-west direction. Due to the presence of dense vegetation, the northern portion of this site was not adequately inspected, and the status of MW-1, MW-9, MW-12, MW-14, MW-16, MW-18, MW-20, MW-21, MW-33, MW-34, MW-35, MW-37, MW-36, MW-38, MW-39, and MW-40 on Attachments 7 and 8 are unknown.

Sanborn maps from 1886 through 1912 depicted Dimock Gould lumber yard at this site. The date of first development is unknown. Sanborn maps from 1950 through 1970 depicted the lumber yard on the east side of the site and Frank Foundries on the west side. Site features of the foundry included a foundry, milling room, casting room, and oil house. According to a local resident, Frank Foundries started in this area in 1917 and ceased operations in 1992. Aerial photographs from 1938 through 1988 depicted industrial building resembling the industrial buildings for Frank Foundries depicted on Sanborn maps. Aerial photographs from 1993 through 2015 depicted vacant grassy land. City directories listed Frank

Foundries from 1917 through 1992 within the historical address range for this site. No listing for this site were found in the 1997 through 2014 city directories.

Under the name "Frank Foundries Corp" and the address "2020 3rd Ave", this site appears on the UST list (OSFM #3002575) with one registered UST. According to OSFM files, a gasoline UST was removed in November 1990. No location information was found, however, information from IEPA files in association with IEMA #903547 indicated the UST was located approximately 38 m (125 ft) north of 3rd Street and 41 m (135 ft) east of 21st Street. No further information was present in OSFM files regarding OSFM #3002575. See IEMA #903547, below, for a discussion of this UST.

Under the name "Frank Foundry Co" and the address "2020 3rd Ave", this site appears on the UST list (OSFM #3035383) with one registered UST. According to OSFM files, a heating-oil UST was removed in December 1996. The UST was located in a former material storage yard located approximately 213 m (700 ft) north of River Drive and approximately 100 m (328 ft) east of 20th Street. Removal logs indicated groundwater in the excavation had a petroleum sheen. No further information was present in OSFM files regarding OSFM #3035383. See IEMA #962282, below, for a discussion of this UST.

Under the name "Frank Foundries" and the address "2020 River Dr", this site appears on the BOL list (IEPA #1610455150). According to IEPA files, in an undated request, Frank Foundries applied for an IEPA generator number. The reason for the application was not stated. No further information was available in IEPA files regarding IEPA #1610455150.

Under the name "Frank Foundries Corp" and the address "2020 Third Ave", this site appears on the inactive RCRA list (USEPA #ILD005267562). Under the name "Frank Foundries Corp" and the address "2020 3rd Ave", this site appears on the BOL list (IEPA #1610455008). Under the same IEPA number, the name "Frank Foundries" and the address "2020 Third Avenue", this site appears on the SRP list (IEPA #1610455008). According to IEPA files, from 1980 through 1996, Frank Foundries registered with the USEPA as a generator of 100 to 1,000 kg/mo (220 to 2,200 lb/mo) of ignitable wastes, corrosive wastes, and lead wastes. No further information regarding the generator status of this site was included in IEPA files.

Under the name "Frank Foundries Corp" and the address "2020 Third Ave. ", this site appears on the LUST list (IEMA #903547). Under the name "Frank Foundries Co. " and the address "2020 Third Ave. ", this site appears on the LUST list (IEMA #962282). According to IEPA files, in November 1990 during the removal of a gasoline UST, evidence of a release was observed, and IEMA #903547 was issued. The UST was located in a former material storage yard, approximately 38 m (125 ft) north of River Drive and 41 m (135 ft) east of 21st Street. Following the removal of the impacted soil, soil samples were collected by Q. C. Metallurgical Laboratory, Inc. BTEX compounds were detected below IEPA objectives in effect at that time. Water was encountered in the excavation, and a sample was submitted for PAH analysis. The depth to groundwater was not documented. The groundwater water sample did not exceed the IEPA cleanup objectives for PAHs in effect at that time. Based on this information, on January 21, 1992, IEPA issued an NFR letter, with no AULs (Attachment 6). No further information was present in IEPA files regarding IEMA #903547.

According to IEPA files, Phase I and II environmental assessments by Environmental S/E Services Inc. , were conducted for a possible land purchase in February 1992. Findings during this assessment included three transformers that were out of use but covered with oil. Sampling of the transformer oil was conducted with no PCBs detected. Approximately 200 drums containing discolored soil were observed in a drum-storage area located approximately 213 m (700 ft) north of River Drive. PCBs above regulatory levels in effect at that time were detected in soils in these drums. IEPA files indicated that from late 1992 to 1995, all ACM, drums, foundry waste material, oil-filled equipment, and water from a sump in a pallet building, were removed. During this same period, soil borings and seventeen monitoring wells (MW-1, MW-9, MW-12, MW-14, MW-16, MW-18, MW-20, MW-21, MW-33, MW-34, MW-35, MW-37, MW-36, MW-38, MW-39, and MW-40, and MW-41 on Attachments 7 and 8) were installed on this site to delineate the previously detected metals and VOC-impacted areas. Two soil borings were also completed at Site 1314V3-8 (northwest corner of 23rd Street and River Drive). Several areas of lead-impacted soil above



regulatory levels in effect at that time were discovered on the northern half of this site, and benzene-impacted groundwater above regulatory levels in effect at that time was detected in the middle and northern portions of the site (see Attachment 7 for the estimated extent of impacted groundwater). Groundwater was encountered at a range of 1.2 to 4 m (4 to 12 ft) below the ground surface, with groundwater flow direction toward the north. During remedial activities in 1996, including soil removal and groundwater treatment via air stripping, an UST filled with what appeared to be groundwater was discovered in the approximate middle of this site. (see Attachment 7 for UST location). In samples of the liquid from this UST, VOCs above Class I GROs were detected, and IEMA #962282 was generated. Since this site was already undergoing remediation, remedial activities for this incident were added to this ongoing study.

A monitoring well was observed in the general area of MW-41 as depicted on Attachment 7. MW-1, MW-9, MW-12, MW-14, MW-16, MW-18, MW-20, MW-21, MW-33, MW-34, MW-35, MW-37, MW-36, MW-38, MW-39, and MW-40 as depicted on Attachment 7 and 8 were not observed.

Between 1996 and 1998, groundwater and soil samples were collected and analyzed for BTEX compounds and found to be below Class II GROs and TACO Tier 1 industrial/commercial objectives. Frank Foundries Corp. joined the SRP program in September 1998 to receive a comprehensive NFR letter for the events discussed above. Based on this information, IEPA issued an Comprehensive NFR letter on October 6, 1998, for IEPA #1610455008 with no AULs (Attachment 8). The NFR letter did not include IEMA #962282. No further information was present in IEPA files regarding IEMA #962282.

During a RCRA Compliance Evaluation Inspection in January 2007, no violations were observed, and the site was vacant land. No further information was present in IEPA files regarding IEPA #1610455008.

None of the drums or equipment discussed above were observed during field work for this project.

The following information was modified from PESA #1314:

Information was received from the IEPA OER concerning a release of particulates (IEMA #820760) that occurred in 1982. A red granular residue was observed coating automobiles in the area of the plant. The event was reported by personnel at Montgomery Elevator Co. A representative from Frank Foundries indicated that this emission happened quite frequently and that he would go to Montgomery Elevator to discuss the problem with them. Further information concerning this event was not available in IEMA files. During a search of updated IEMA records, this IEMA number was no longer listed.

Under the name "Frank Foundries Corp. " and the address "2020 Third Ave. " this site appears on the on the TRI list (TRI #61265FRNKF2020T). According to TRI records, between 1988 and 1991, 340 kg/yr (750 lb/yr) of chromium was released to the air. Between 1988 and 1991, 114 kg/yr (250 lb/yr) of chromium were transferred off site for disposal. No further information was available in TRI records regarding this site.

Potential hazards associated with foundries include metals and VOCs.

In five boreholes completed at this site for PESA #1314 in 2002, VOCs were detected. In two soil samples collected at this site for PESA #1314, metals were detected. In a soil sample collected at this site for PESA #1314, PCBs were detected. See PESA #1314 for details.

In 16 of 19 boreholes completed at this site for PSI Weston #8 work order #40 in 2014, VOCs, SVOCs, metals, and/or PCBs were detected in soil and/or groundwater. See PSI Weston #8 work order #40 for details.

No visual evidence of stressed vegetation, pits or depressions, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, drums, solid waste, non-petroleum chemical use or storage, or unusual or

noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- Due to heavy vegetation, the northern portion of this site was not adequately viewed during site inspections, and the status of MW-1, MW-9, MW-12, MW-14, MW-16, MW-18, MW-20, MW-21, MW-33, MW-34, MW-35, MW-37, MW-36, MW-38, MW-39, and MW-40 are unknown.
- The date of first development is unknown.

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

The following RECs were identified at this site: Former USTs with documented releases; monitoring well; potential monitoring wells; former drums; evidence of former chemical use; air releases; VOCs, metals, and PCBs detected in previous PSI and ISGS testing.

The following de minimis conditions were identified at this site: Soil mounds; natural gas pipeline; transformer.

**Site 1314V3-7 (1314-J, 1314V-6, 2708-G, 1314V2-7). River Stone Moline Yard, 75 23rd Street and 301 River Drive, Moline (northeast corner of 23rd Street and River Drive; approximate River Drive station 3022+00 LT; Attachment 2, page 3).** This site is occupied by a landscape supply company and a sand and gravel company. Numerous gravel and sand piles were observed on the eastern portions of this site while smaller boulder piles and the main building were observed on the western portion. MW-14, MW-15, MW-16, MW-17, and MW-18 as depicted on Attachment 11 were not observed during fieldwork for this project. Due to the presence of fencing and concrete barriers, however, a complete inspection of the site's surface was not conducted. The status of MW-14, MW-15, MW-16, MW-17, and MW-18 are unknown. A pole-mounted transformer was observed along the western property boundary, and six pole-mounted transformers were observed along River Drive down the length of the site.

Sanborn maps from 1886 through 1970 depicted part of a lumber yard on the west side of the site, and various commercial businesses on the east side including a stone yard (1892), an ice house (1906-1912), a cement manufacturer (1950-1957), and a coal company (1957). The first date of development is unknown. Aerial photographs from 1938 and later depicted commercial and industrial buildings at this site. City directories from 1891 through 1898 either listed individual names or had no listings for this site. City directories listed individual names within the historical address range for this site, and included a lumber yard from 1905 through 1958; an icehouse and coal company from 1911 through 1925; and a cement company from 1911 through 1992. No potential hazards were identified in association with these occupants. City directories after 1992 did not have any listings for this site.

Under the name "Moline Consumers" and the address "200 23rd St", this site appears on the inactive RCRA list (USEPA #ILD984816942). Under the name "Riverstone Group Inc" and the address "2301 River Dr", this site appears on the BOL list (IEPA #1610455066). According to IEPA files, in 1991, Moline Consumers registered as a generator of hazardous wastes in quantities of 100-1,000 kg/mo (220-2,200 lb/mo) per month. The types of waste to be generated were listed as ignitable waste. During a RCRA inspection in February 2013, no violations were noted. No further information was present in IEPA files regarding IEPA #1610455066.

Information in IEPA files for Site 1314V3-20 (IEPA #1610455083) pertained to this site. Tier 2 modeling that predicted benzene-impacted groundwater could migrate offsite from Site 1314V3-19 onto this site. In response to LUST events at Site 1314V3-20, five monitoring wells (MW-14, MW-15, MW-16, MW-17, and MW-18 on Attachment 11) were installed on this site in March 2000. MW-14, MW-15, MW-16, MW-17, and MW-18 as depicted on Attachment 11 were not observed during fieldwork for this project. Soil samples collected during the installation of these monitoring wells analyzed for BTEX and PAHs did not exceed Tier 1 commercial/industrial SROs. Groundwater samples analyzed for BTEX and PAHs did not

exceed Tier 1 Class I GROs. were analyzed for BTEX. See Attachment 11 for the resulting modeled area of impacted groundwater. On February 8, 2008, municipal HAA was executed with the City of Moline for the River Drive ROW in response to investigation completed at 1314V3-20. See Attachment 16, page 10 for the area covered by the HAA. See Site 1314V3-20 for further details.

In one borehole completed at this site for PSI Weston #8 work order #40 in 2014, VOCs, and metals were detected in soil and/or groundwater. See PSI Weston #8 work order #40 for details.

Potential hazards associated with coal companies include acids, metals, VOCs, and PAHs. Potential hazards associated with concrete factories include VOCs.

No visual evidence of stressed vegetation, pits or depressions, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- Due to the presence of fencing and concrete barriers, however, a complete inspection of the site's surface was not conducted. The status of MW-14, MW-15, MW-16, MW-17, and MW-18 are unknown.
- The date of first development is unknown.
- The status of potentially impacted groundwater is unknown.

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

The following RECs were identified at this site: Potential monitoring wells; evidence of chemical use; potentially impacted groundwater; HAA; VOCs and metals detected in previous PSI testing.

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

**Site 1314V3-8 (1314V-7, 2708-T, 1314V2-8), Commercial building, 190 22nd Street, Moline (northwest corner of 23rd Street and River Drive; approximate River Drive station 3019+00 LT; Attachment 2, page 3).** This site is occupied by a vacant commercial building. Signage on the building indicated this site was formerly a cabinet company and a filtration distributor. Three pole-mounted transformers were observed near the northwest corner of the building.

On the 1886 through 1970 Sanborn maps and aerial photographs from 1938 through 1970 two different commercial buildings and railroad tracks were depicted, with Sanborn maps labeled the buildings as a lumber yard. The date of first development is unknown. Aerial photographs from 1988 through 2009 depicted the current building and no railroad tracks. Aerial photographs from 2010 through 2015 depicted the current building and a different entrance configuration. City directories from 1891 through 1898 either listed individual names or had no listings for this site. City directories listed a lumber yard within the historical address range for this site from 1905 through 1958, had no listings from 1965 through 1987, and listed a floor covering distributor from 1990 through 2004. City directories listed a cabinet manufacturer in 2004 and filtration systems company in 2011.

Under the name "Dimock Gould & Co" and the address "190 22nd St", this site appears on the UST list (OSFM #3033500) with one registered UST. According to OSFM files, one diesel UST was removed in March 1995. No location information was found in OSFM files; however, according to an employee of Green Valley Cabinet interviewed in 2013, the UST was located near the northwest corner of the building,

just north of the loading docks and approximately 116 m (380 ft) north of River Drive and 101 m (330 ft) west of 23rd Street.

Information in IEPA files for Site 1314V3-6 (IEPA #161045008) pertained to this site. According to IEPA files, in February 1992, two soil borings were completed at this site in response to SRP events at Site 1314V3-6. Soil samples analyzed for BTEX and metals did not exceed the IEPA cleanup objectives in effect at that time. Groundwater was not encountered during these activities. See Site 1314V3-6 for further details.

In seven of eight boreholes completed at this site for PSI Weston #8 work order #40 in 2014, VOCs, SVOCs, and metals were detected in soil and/or groundwater. See PSI Weston #8 work order #40 for details.

Potential hazards associated with the wood working industry include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gap was identified at this site:

- The date of first development is unknown.

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

The following RECs were identified at this site: Former UST; potential chemical use; VOCs and metals detected in previous PSI testing.

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

**Site 1314V3-11 (1314-4, 1314V-8, 1314V2-10). Vacant land, 1900 block of River Drive, Moline (north side of River Drive between 19th and 20th Street; approximate River Drive station 3014+00 LT; Attachment 2, page 3).** This site is occupied by grassy vacant land that runs underneath I-74. A soil pile was observed east of I-74. A bike trail runs along the south side of this site. This site did not appear on any of the regulatory lists checked for this project.

Sanborn maps from 1886 through 1912 depicted residences. Sanborn maps from 1950 through 1957 depicted residences, a restaurant, a grocer, and a roofing business. Sanborn maps also depicted a bridge crossing over this site. Sanborn maps from 1967 through 1970 depicted this site as vacant with the current I-74 bridge. Aerial photographs from 1938 through 1970 depicted residences and commercial buildings. Aerial photographs from 1980 and later depicted the site as vacant with a grassy appearance and bridge. City directories either listed individual names or had no listings for this site prior to 1939 within the historical address range for this site. City directories from 1945 through 1958 listed a roofing company, Eagle Signal Company, a traffic control device manufacturer, in 1945, and listed a grocer from 1953 through 1970 within the historical address range for this site. In 1970 through 1997 city directories, no listings were found.

In two boreholes completed at this site for ISGS #1314 in 2002, no VOCs were detected. In a soil sample collected from this site in 2002 for ISGS #1314, no PAHs were detected. See ISGS #1314 for details.

In seven of eight boreholes completed at this site for PSI Weston #8 work order #40 in 2014, VOCs, SVOCs, and metals were detected in soil and/or groundwater. See PSI Weston #8 work order #40 for details.

Potential hazards associated with manufacturing include metals, cutting oils, lubricants, solvents, and cutting fluids.

No visual evidence of stressed vegetation, pits or depressions, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

No data gaps were identified at this site.

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

The following RECs were identified at this site: Potential former chemical use; VOCs, SVOCs, and metals detected in previous PSI testing.

The following de minimis condition was identified at this site: Soil pile.

**Site 1314V3-17 (1314-12, 1314V-14, 2708-67, 1314V2-16). Parking lot, 300 block of 19th Street, Moline (southeast corner of 19th Street and River Drive; no stationing provided; Attachment 2, page 3).** This site is occupied by a parking lot. No natural gas pipeline markers were observed at this site. However, natural gas pipeline markers were observed to the east and west of this site, and it is likely that a pipeline passes through this site as well. This site did not appear on any of the regulatory lists checked for this project.

Sanborn maps from 1886 through 1898 depicted residences at this site. Sanborn maps from 1906 depicted a machine shop on the east side of the site and residences on the remainder. Sanborn maps from 1912 depicted a railroad depot on the south side of the site, a machine shop on the northeast corner of the site, and residences along River Drive. On the 1938 through 1970 aerial photographs, two commercial buildings, one similar to the depot building depicted on the 1912 Sanborn map, and residences were shown. The 1950 through 1970 Sanborn maps depicted the same commercial buildings, labeled a machine shop on the northeast side of the site, offices in the depot building on the south side of the site, and residences on the northwest side of the site. Aerial photographs from 1980 through later depicted a parking lot.

City directories from 1891 through 1906 listed individual names in the historic address range for this location. City directories from 1911 through 1917 listed Moline Tool in the historic address range for this location. City directories from 1917 through 1958 listed a railroad freight depot in the historic address range for this location. City directories from 1925 through 1939 listed a sheet metal works within the historical address range for this site. City directories from 1953 through 1965 listed an elevator equipment company in the historic address range for this location. City directories from 1953 through 1965 listed a trucking company within the historical address range for this site. In city directories from 1965 through 2011, no listings were found.

Potential hazards associated with metal working and machining include VOCs and metals. Historic trucking companies commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

In two soil samples collected at this site for PESA #1314, no metals or PCBs were detected. See PESA #1314 for details. In two of two boreholes completed at this site for PSI Weston #8 work order #40 in 2014, VOCs, SVOCs, and metals were detected in soil and/or groundwater. See PSI Weston #8 work order #40 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- No natural gas pipeline markers were observed at this site. However, natural gas pipeline markers were observed to the east and west of this site, and it is likely that a pipeline passes through this site as well.
- The status and location of any undocumented UST(s) at this site are unknown.

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

The following RECs were identified at this site: Potential former chemical use; VOCs, SVOCs, and metals.

The following de minimis condition was identified at this site: Likely natural gas pipeline.

**Site 1314V3-18 (1314-8, 1314-9, 1314-10, 1314-13, 1314V-8, 2708-65, 1314V2-17), Vacant land, 1900-2100 blocks of River Drive, Moline (south side of River Drive between 19th Street and 22nd Street; approximate River Drive station 3015+00 RT; Attachment 2, page 3).** This site is occupied by vacant grassy land and extends beneath I-74. Three natural gas pipeline markers were observed along the north side of this site. A natural gas pipeline crosses this site in an east-west direction. This site did not appear on any of the regulatory lists checked for this project.

Sanborn maps from 1886 through 1898 depicted a foundry and a machine shop on the east side of the site and residences on the remainder. The date of first development of this site is unknown. Sanborn maps from 1906 depicted a foundry and machine shop on the east side of the site and a machine shop and warehouse on the west side of the site. Sanborn maps from 1912 depicted a railroad freight depot on the south side of the site, a machine shop on the northwest side of the site, and a freight depot with a railyard on the east half of the site. On the 1938 through 1970 aerial photographs, three commercial buildings were shown on the northwest and south sides of the site and a gasoline station on the north side of the site. The 1950 through 1957 Sanborn maps depicted the same buildings, labeled an elevator bucket manufacturer, a freight house, and a coal yard and gasoline station. Three USTs were depicted approximately 94 m (310 ft) west of 22nd Street and 15 m (50 ft) south of River Drive. The status of these USTs are unknown. On the 1967 through 1970 Sanborn maps, only the bucket manufacturer and railyard was labeled. Aerial photographs from 1980 and later depicted vacant grassy land at this location.

City directories from 1905 listed Moline Pump Company in the historic address range for this location. City directories from 1911 through 1917 listed Interstate Motor Freight Systems in the historic address range for this location. City directories from 1940 through 1955 listed a gasoline station in the historic address range for this location. City directories from 1945 through 1975 listed a freight business, a roofing company, and a trucking company in the historic address range for this location. In 1975 through 2014 city directories, no listings were found.

No UST information was available from the Moline Fire Department for this site. In one of eight boreholes completed at this site for ISGS #1314 in 2002, VOCs were detected. In two soil samples collected from this site in 2002 for ISGS #1314, no metals were detected. See ISGS #1314 for details. In six of ten

boreholes completed at this site for PSI Weston #8 work order #40 in 2014, SVOCs and metals were detected in soil and/or groundwater. See PSI Weston #8 work order #40 for details.

Potential hazards associated with foundries include metals and VOCs. Potential hazards associated with metal working and machining include VOCs and metals. Historic trucking companies commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The date of first development is unknown.
- The status of the UST depicted on Sanborn maps is unknown.
- The status and location of any undocumented UST(s) at this site are unknown.

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

The following RECs were identified at this site: Potential UST(s); potential former chemical use; VOCs, SVOCs, and metals detected in previous ISGS and PSI testing.

The following de minimis condition was identified at this site: Natural gas pipeline.

**Site 1314V3-21 (1314-12, 1314-16, 1314V-13, 2708-60, 1314V2-20). BNSF Railroad, 1900-2200 blocks of 4th Avenue, Moline (north side of 4th Avenue between 18th Street and 23rd Street; approximate 4th Avenue stations 402+00 to 410+00 LT; Attachments 3 and 13).** This site is occupied by a railroad and a short spur at 23rd Street. Three signal boxes were observed, one east of 19th Street, one north of the railroad on an alignment with 22nd Street, and one west of 23rd Street. The 22nd Street box also had a battery box associated with the signal box. This site did not appear on any of the regulatory lists checked for this project.

On the 1886 through 1970 Sanborn maps, and on the 1938 and late aerial photographs, a railroad track was present at this site. The date of first development is unknown.

Information in IEPA files for Site 1314V3-30 (IEPA #1610455193) pertained to this site. Huff & Huff conducted Tier 2 modeling that predicted that impacted groundwater had the potential to migrate from Site 1314V3-30 onto this site. No testing was conducted on this site, and the status of any potentially impacted groundwater is unknown. On December 20, 2006, IEPA issued a NFR letter for IEPA #1610455193 (Site 1314V3-30) with an AUL that included notification of potentially affected property owners (Attachment 18). This site was required to be notified. No notification letters were present in IEPA files. See Site 1314V3-30 for further details.

Potential hazards associated with railroad signal and battery boxes include batteries and metals.

In one of two soil samples collected at this site for ISGS #1314 in 2002, PCBs were detected. No metals were detected in two soil samples. See ISGS #1314 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground),

pumps or dispensers, protruding pipes, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gap was identified at this site:

- The date of first development is unknown.
- The status of potentially impacted groundwater is unknown.

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

The following RECs were identified at this site: Railroad signal and battery boxes; potentially impacted groundwater; PCBs detected in previous ISGS testing.

No de minimis conditions were identified at this site.

**Site 1314V3-24 (1314-14, 1314-18, 1314-20, 1314-22, 1314-24, 1314-25, 1314-K, 1314-S, 1314- D, 1314V-G, 2708-67, 2708-Q, 2708-X, 1314V2-23), John Deere, 400 19th Street, Moline (southeast corner of 4th Avenue and 19th Street; no stationing provided; Attachment 2, page 4).** This site is occupied by an office building, a parking lot, an utility building west of I-74, and a large parking lot and commercial building east of I-74. Five protruding pipes, which had the appearance of vent pipes, were observed on the northeast corner of the office building; however, it could not be verified if USTs were present at this location. At least one vent pipe is associated with a natural gas utility. A generator with a diesel AST underneath was also observed on the northeast side of the building. MW-1, MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-99-1, MW-99-4, and MW-99-6 on Attachment 15 were not present during fieldwork for this project. Four pad- transformers were observed along the east side of the office building. Three pole-mounted transformers were observed along the east side of the east parking lot. Inside the storage building on the south parking lot, two chemical containers with unknown contents were observed.

Due to the complexity of the history of this site, the site history section is divided into three areas: the office building; the parking area and storage building to the south of the office building; and the utility building and parking area to the east of the office building.

#### **Office building:**

Sanborn maps from 1886 through 1912 depicted residences and a different office at this site. The date of first development is unknown. Aerial photographs from 1938 and later depicted the current building. Sanborn maps from 1950 through 1970 depicted the same current building, labeled John Deere offices. City directories from 1891 through 1925 listed individual names. City directories from 1932 through 2014 listed John Deere at this location.

#### **South parking area and storage building:**

Sanborn maps from 1886 through 1912 depicted residences at this site. The date of first development is unknown. Aerial photographs from 1938 through 2011 depicted two different commercial buildings on the west side. Sanborn maps from 1950 depicted the same commercial buildings, labeled a garage, a restaurant, and stores in one of the buildings, and two gasoline stations (one at the northeast corner of 19th Street and 5th Avenue and one at the northwest corner of 20th Street and 5th Avenue). A total of seven USTs were depicted at this location: three gasoline USTs were located approximately 15 m (50 ft) east of 19th Street and 27 m (90 ft) north of 5th Avenue; one UST was located approximately 38 m (125 ft) east of 19th Street and in the 5th Avenue ROW; and three gasoline USTs were located along the north side of 5th Avenue approximately 91 m (300 ft) east of 19th Street. The status of these USTs is unknown. Sanborn maps from 1957 through 1970 depicted the same commercial buildings, labeled a dry cleaning shop, a gasoline station, and a garage. Only one UST was depicted in the 5th Avenue ROW. The status



of this UST is unknown. Aerial photographs from 1958 through 2014 depicted a small utility building on the south side of the parking lot in addition to the other commercial buildings.

City directories from 1891 through 1925 listed either individual names or had no listings for this area. City directories from 1932 through 1992 listed various commercial occupants were listed in the historic address ranges for this site, including a gasoline station (1932 through 1953), an auto repair shop (1958), a second gasoline station (1945 through 1965) and an auto repair shop (1958 through 1965). No potential hazards were identified in association with any other occupants. In the 1997 through 2014 city directories, no listings were found.

#### **East parking area and building:**

Sanborn maps from 1886 through 1912 depicted the Barnard and Lea Manufacturing Company at this site, with a foundry and machine shop on the north side and a lumber yard on the south side. The date of first development is unknown. Aerial photographs from 1938 through 1970 depicted commercial buildings. Sanborn maps from 1950 through 1957 depicted the same buildings, labeled Zephyr Laundry Machine Co., a unspecified commercial building and a restaurant. A gasoline station was also depicted at the northeast corner of 20th Street and 5th Avenue with three USTs depicted approximately 91 m (300 ft) west of 21st Street and 38 m (125 ft) north of 5th Avenue. Sanborn maps from 1967 through 1970 labeled the buildings as containing a used auto sales business at the northwest corner of 21st Street and 5th Avenue, a gasoline station at the northeast corner of 20th Street and 5th Avenue, with the same three USTs depicted. The status of these USTs is unknown. A laundry machine factory was also depicted. Aerial photographs from 1980 and later depicted the current parking area.

City directories from 1891 through 1925 listed Barnard and Lea. In the 1932 through 1977 city directories, numerous commercial occupants were listed in the historic address ranges for this site, including some with generic names, including a gasoline station (1932 through 1939), a foundry (1939), a second gasoline station (1945 through 1965), an auto parts warehouse (1953 through 1965), and an auto sales business (1953 through 1977). No potential hazards were identified in association with any other occupants. In the 2004 through 2014 city directories, no listings were found.

No information was available from the Moline Fire Department concerning USTs at this site.

The following information has been modified from ISGS #2708:

During a site inspection, a building was observed directly east of the 5-story building along the south side of 4th Avenue that housed what appeared to be several large generators. Three ASTs all labeled "diesel" were present next to the west side of this building.

The ASTs were not observed during fieldwork for this project. The status of these ASTs are unknown.

Under the name "Mikes Auto" and the address "428 19th St", this site appears on the BOL list (IEPA #1610455138). Under the name "Orvil Union 76" and the address "428 19th Street", this site appears on the LUST list (IEMA #942422). Under the name "Former Orvil Union 76" and the address "428 19th Street", this site appears on the UST list (OSFM #3015497) with five registered USTs. According to OSFM files, one used-oil UST and three gasoline USTs were removed in 1994, and one heating-oil UST was removed in 2012. The four USTs removed in 1994 were located approximately 16 m (52 ft) east of 19th Street and 38 m (125 ft) north of 5th Avenue. See IEMA #942422, below, for a discussion of the USTs. No information regarding the location of the heating- oil UST was present in OSFM files, and its former location is unknown.

According to IEPA files, in October 1994, three gasoline USTs and one used-oil UST were removed from this site. Evidence of a release was observed, and IEMA #942422 was issued. A site investigation was conducted by Geotechnical Services, Inc. (GSI) that determined only the gasoline UST and not the used-oil UST had leaking. Soil and groundwater samples collected from the excavation and surrounding area were analyzed for BTEX. BTEX was detected in both the soil and groundwater above IEPA objectives in

effect at that time. Water was encountered in these borings between 3.1 and 4.1 m (10.3 and 13.3 ft), and groundwater flow direction was toward the southwest beneath 19th Street and toward the southeast beneath 5th Avenue. Additional site activities were completed in 1996 including the installation of four monitoring wells (MW-1 through MW-4 on Attachment 15). These monitoring wells were not present during the fieldwork for this project. BTEX and metal were detected above TACO Tier 1 Class I GROs at the north, south, and west property lines. In 1999, three on-site monitoring wells (MW-99-1, MW-99-4, and MW-99-6) were installed, one off-site monitoring well (MW-99-2) was installed at Site 1314V3-23, and one off-site monitoring well (MW-99-3) was installed at Site 1314V3-22. MW-99-1, MW-99-4, and MW-99-6 were not present during fieldwork for this project. BTEX and PAHs were not detected above TACO Tier 1 Class I GROs in any of the off-site wells. Soil samples were not collected at these off-site locations. During the most recent soil and groundwater sampling events in 2000, only BTEX was detected above TACO Tier 1 industrial/commercial SROs, and BTEX and lead were detected above TACO Tier 1 Class I GROs. Attachment 13 depicts the estimated extent of impacted soil, and Attachment 14 depicts the estimated extent of impacted groundwater.

GSI developed Tier 2 objectives and conducted Tier 2 modeling to determine that impacted groundwater was likely to migrate offsite. Attachment 15 depicts the modeled extent of impacted groundwater. GSI proposed to manage residual impact through AULs, and a HAA with the City of Moline. On September 12, 2003, municipal HAA was executed with the City of Moline for the 19th Street and 5th Avenue ROWs, and the alley north of the site (see page 10 of Attachment 16 for the area of the HAA). The agreement area for this HAA adjoins Sites 1314V3-22, 1314V3-23, 1314V3-31, 1314V3-32, and 1314V3-33. Based on this information, on May 3, 2005, IEPA issued an NFR letter for IEMA #942422 with the following AULs: a worker safety plan, an engineered barrier in the form of a concrete slab, a HAA maintained with the City of Moline, a groundwater use restriction, and notification of potentially affected property owners (Attachment 16). No notification letters were present in IEPA files. No further information was available in IEPA files regarding IEMA #942422.

Under the name "Tag Enterprises" and the address "1909 5th Ave", this site appears on the BOL list (IEPA #1610455236). According to IEPA files, in 2002, Tag Enterprises registered with IEPA as a generator of unspecified wastes. No further information was present in IEPA files regarding IEPA #1610455236.

Under the name "Deere and Co" and the address "400 19th St", this site appears on the active RCRA list (USEPA #ILR000063875). Under the name "Deere & Co." and the address "400 19th Street", this site appears on the BOL list (IEPA #1610455119). According to IEPA files, in 1999, Deere & Company registered with USEPA and IEPA as a generator of less than 100 kg/mo (220 lb/mo) of ignitable waste. From 2009 through 2011 the site was permitted by USEPA as a nonhazardous special waste generator. No further information was present in IEPA files regarding IEPA #1610455119.

Under the name "Deere and Company" and the address "400 19th Street", this site appears on the IEMA non-LUST list (IEMA #1982197). According to IEMA records, a release of 2,495 kgs (5,500 lbs) of Halon 1301 occurred on September 3, 1998, due to an accidental triggering of a fire protection system. Halon is a gas and was released into the atmosphere. No further information was present in IEMA files regarding IEMA #1982197.

Information in IEPA files for Site 1314V3-31 (IEPA #1610455194) pertained to this site. In response to LUST events at Site 1314V3-31, one monitoring well was installed at this site (MW17 on Attachment 19) and groundwater samples were analyzed for BTEX. No groundwater samples from this location exceeded TACO Tier 1 Class I GROs. This monitoring well was not present during fieldwork for this project. See Site 1314V3-31 for further details.

Potential hazards associated with dry cleaning businesses include VOCs. Potential hazards associated with foundries include acids, metals, and VOCs. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

In four of fifteen boreholes completed at this site for ISGS #1314 in 2002, VOCs were detected. In a soil sample collected from this site in 2002 for ISGS #1314, metals were detected. See ISGS #1314 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, pumps or dispensers, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The presence of USTs is unknown.
- The contents of the chemical containers are unknown.
- The date of first development is unknown.
- The status of the USTs depicted on Sanborn maps is unknown.
- The location of the former heating-oil UST is unknown.
- The status and location of any undocumented UST(s) at this site are unknown.

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

The following RECs were identified at this site: Former USTs with a documented release; potential UST(s); AST; former ASTs; former monitoring wells; evidence of chemical use; chemical containers; air release; impacted soil and groundwater; HAA; VOCs and metals detected in previous ISGS testing.

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

**Site 1314V3-25 (1314-15, 1314V-15, 2708-63, 1314V2-24). Sivyer Steel Corp., 400 21st Street, Moline (south side of 4th Avenue between 19th and 22nd Street; approximate station 405+00 RT of 4th Avenue; Attachment 2, page 4).** This site is occupied by a metal machine shop. Two 208-liter (55-gallon) drums with unknown contents were observed along the west side of the building. A pad-mounted transformer was observed near the south side of the building.

The following information has been modified from ISGS #1314V:

A site inspection revealed the presence of multiple 208-liter (55-gallon) drums that were visible in a garage bay near the west side of the building, and three more sealed drums on a pallet outside the west side of the building. Dark stains on the pavement were present around the trash dumpsters located near the intersection of 21st Street and the alley running along the south side of the building.

These drums and stains were not observed at this site during fieldwork for this project.

Sanborn maps from 1886 depicted a foundry on the northwest side of this site with the remainder of the site not depicted. The date of first development is unknown. Sanborn maps from 1892 through 1906 depicted residences on the middle and eastern parts of the site, and the same foundry at the northwest corner of the site. Sanborn maps from 1912 depicted industrial buildings associated with the foundry over the entire site. Aerial photos from 1938 and later depicted industrial buildings at this site, and Sanborn maps from 1960 through 1970 depicted the same buildings, labeled a laundry machine factory. City directories from 1891 through 1898 either listed individual names or had no listing for this site. City directories from 1905 through 1925 listed Barnard and Leas Manufacturing, a foundry. City directories from 1953 through 1965 listed a laundry machine manufacturer. In the 1971 through 1982 city directories,

no listings were found. City directories listed Sivyer Steel in 1987 through 1997. In the 2004 through 2014 city directories, no listings were found.

Under the name "Riverside Products Division" and the address "400 21st Street", this site appears on the BOL list (IEPA #1610455040). According to IEPA files, in 1998, Riverside Products registered with IEPA as a generator of unspecified wastes. No further information was present in IEPA files regarding IEPA #1610455040.

In two of three boreholes completed at this site for ISGS #1314 in 2002, VOCs were detected. In a soil sample collected at this site for ISGS #1314 in 2002, no metals were detected. See ISGS #1314 for details.

Potential hazards associated with foundries include acids, metals, and VOCs. Potential hazards associated with metal working and machining include metals and VOCs.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The contents of the drums are unknown.
- The date of first development is unknown.

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

The following RECs were identified at this site: Drums; former drums; evidence of chemical use; VOCs detected in previous ISGS testing.

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

**Site 1314V3-26 (1314-26, 1314V-16, 1314V2-25). Commercial building, 2101 5th Avenue, Moline (northeast corner of 5th Avenue and 21st Street; no stationing provided; Attachment 2, page 4).** This site is occupied by a vacant commercial building. A pole-mounted transformer was observed along the north side of the building. This site did not appear on any of the regulatory lists checked for this project.

Sanborn maps from 1892 through 1912 depicted a residence. The date of first development is unknown. Aerial photographs from 1938 depicted a residence. Aerial photographs from 1958 and later depicted the current commercial building and Sanborn maps from 1957 through 1970 depicted the same commercial building, labeled an automobile sales and service business. City directories from 1915 through 1958 listed individual names. City directories from 1959 through 1977 listed an automobile dealership. City directories from 1982 through 2011 listed a building contractor. In 2014 city directories, no listings were found.

During interviews for ISGS #1314V in 2011, the owner stated that a used-oil UST had been removed from an area near the northeast corner of the building.

In three boreholes completed at this site for ISGS #1314 in 2002, no VOCs were detected. See ISGS #1314 for details.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The date of first development is unknown.
- The status and location of any undocumented UST(s) at this site are unknown.

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

The following RECs were identified at this site: Former UST; potential UST(s); potential former chemical use.

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

**Site 1314V3-32 (1314-19, 1314V2-29). Commercial buildings, 1900 5th Avenue, Moline (southeast corner of 5th Avenue and 19th Street, no stationing provided, Attachment 2, page 5).** This site is occupied by a vacant commercial building on its north side, a parking lot at its southwest corner, and another commercial building at the southwest corner. An AST vent and fill pipe with staining on the surrounding pavement was observed exiting the southeast corner of the north building. A pole-mounted transformer was also observed on the southeast corner of the north building.

During interviews for ISGS #1314 in 2002, a used-oil AST was documented inside the building at the corner of the current fill and vent pipe. This AST was not observed during fieldwork for this project, and its status is unknown.

Sanborn maps from 1886 depicted a different commercial building on the south side of the site and residences on the north side of this site. The date of first development is unknown. Sanborn maps from 1892 through 1912 depicted residences. Aerial photographs from 1938 through 1994 depicted the current commercial building on the north side of the site and residences on the south side. Sanborn maps from 1950 through 1970 depicted the same commercial building, labeled a gasoline station and automobile greasing station, on the north side of the site and residences on the south side. Two USTs were depicted on the 1950 through 1957 Sanborn maps, located approximately 12 m (40 ft) south of 5th Avenue and 12 m (40 ft) east of 19th Street. The status of these USTs are unknown. Aerial photographs from 1998 and later depicted the current commercial buildings. City directories from 1891 through 1925 listed individual names. City directories from 1932 through 2004 listed various gasoline stations and automobile service businesses. During fieldwork for ISGS #1314V2 in 2013, this site was occupied by an auto service business.

Under the name "Firestone Garage" and the address "1900 S 5th Ave", this site appears on the UST list (OSFM #3029118) with two registered USTs. According to OSFM files, two kerosene USTs were removed in March 1991. UST removal documents indicated that no evidence of a release was observed in the UST pit. No location information was found in OSFM files; however, Mike, former owner of Mike's Automotive and Towing, during an interview in 2002, stated that the USTs were formerly located along the north side of the building. The center of the area Mike indicated was located approximately 29 m (95

ft) east of 19th Street and 11 m (36 ft) south of 5th Avenue. No further information was present in OSFM files regarding OSFM #3029118.

Under the name "Precision Auto Care" and the address "1900 5th Ave", this site appears on the active RCRA (USEPA #IL0000378752) and BOL lists (IEPA #1610455072). According to IEPA files, in 1994, Precision Auto Care registered with USEPA and IEPA to generate between 100 and 1,000 kg/month (220 and 2,200 lbs/month) of ignitable wastes. An IEPA compliance inspection was conducted on June 26, 1997. The inspection indicated that waste materials generated by this facility were used oil, used anti-freeze, and hazardous material related to waste paint. Minor violations were corrected at the time of the inspection. An RCRA inspection was conducted by IEPA in August 2012. Violations noted during the inspection concerned failure to send waste storage notifications to the IEPA, failure to label a waste-oil AST, and failure to post notices regarding waste tire handling. This AST was not observed during field-work for this project, and its status is unknown. In September 2012, the violations had been corrected. No further information was present in IEPA files regarding IEPA #1610455072.

Information in IEPA files for Site 1314V3-24 (IEPA #1610455138) pertained to this site. On September 12, 2003, a municipal HAA was executed with the City of Moline for the 5th Avenue ROW adjoining this site, in response to LUST events at 1314V3-24. See Attachment 16, page 10 for the area covered by the HAA. See Site 1314V3-24 for further details.

No information was available from the Moline Fire Department concerning USTs at this site.

In three boreholes completed at this site for PESA #1314 in 2002, no VOCs were detected. See PESA #1314 for details.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The date of first development of the site is unknown.
- The status of the UST depicted on Sanborn maps is unknown.
- The AST mentioned in IEPA files was not observed, and its status is unknown.
- The status and location of any undocumented UST(s) at this site are unknown.

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

The following RECs were identified at this site: Former USTs; potential UST(s); potential AST(s); evidence of former chemical use; protruding pipes; HAA.

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

**Site 1314V3-33 (1314-21, 1314V-17, 1314V2-30, 1314V2-31). Parking lot, 1900 block of 5th Avenue, Moline (south side of 5th Avenue between 19th Street and 21st Street; no stationing provided;**

**Attachment 2, page 5).** This site is occupied by a parking lot. Three pole-mounted transformers were observed along the south side of this site.

Sanborn maps from 1886 through 1912 depicted residential buildings, with a print shop depicted near the center of this site in 1898. The date of first development is unknown. Aerial photographs from 1938 depicted residences on the west side of the site and a commercial building on the east side of the site. Aerial photographs from 1958 through 1970 depicted two commercial buildings on the west side of the site and a gasoline station on the northeast corner. Sanborn maps from 1950 through 1970 depicted the same commercial buildings, labeled as containing a store and a gasoline station and auto service business. Three USTs were depicted on 1950 through 1970 Sanborn maps, located approximately 99 meters (325 feet) east of 19th Street and 12 meters (40 feet) south of 5th Avenue. The status of these USTs are unknown. Aerial photographs from 1988 through 2014 depicted a commercial building and a vacant gravel lot. City directories from 1891 through 1939 listed individual names within the historical address range of this site. City directories from 1945 through 1965 listed residences and an automobile parts business within the historical address range of this site. City directories from 1953 through 1965 listed a grocery store. In the 1971 through 1977 city directories, no listings were found. In the 1982 through 1997 city directories, Berry Bearing (a ball bearing distributor) was listed. In the 2004 through 2014 city directories, no listings were found. During fieldwork for ISGS #1314V2 in 2013, this site was occupied by a vacant building and a vacant gravel-covered lot. Aerial photographs from 2015 depicted the current parking lot.

Under the names “Berry Bearing Building”, and the address “1908-1920 5th Avenue”, this appears on the USEPA Brownfields list associated with the City of Moline (Property ID 11328). According to Brownfields records, in 2010, a Phase II assessment was completed at this site detected VOCs, SVOCs, and PAHs in the soil and groundwater. No further information regrading this site was present in Brownfields records.

Under the names “O’Rourke Building” and the address “1909 5th Avenue”, this appears on the USEPA Brownfields list associated with the City of Moline (Property ID 59361). According to Brownfields records, in 2007-2008, Phase I and Phase II assessments detected VOCs and SVOCs in the groundwater. No further information regrading this site was present in Brownfields records.

Under the names “Villareal Building”, and the address “1919 5th Avenue”, this appears on the USEPA Brownfields list associated with the City of Moline (Property ID 59381). According to Brownfields records, in 2007-2009, Phase I and Phase II assessments detected “other contaminants” in the groundwater. No further information regrading this site was present in Brownfields records.

Under the name “Skills, Inc.” and the address “1946 5th Avenue”, this site appears on the LUST (IEMA #20100458) and BOL lists (IEPA #1610455289). According to IEPA files, the LUST incident actually occurred at 1146 5th Avenue, which is located approximately 1 kilometer (0.6 miles) west of the project area. The IEPA information for this listing is therefore not included for this report.

Information in IEPA files for Site 1314V3-24 (IEPA #1610455138) pertained to this site. On September 12, 2003, a municipal HAA was executed with the City of Moline for the 5th Avenue ROW adjoining this site, in response to LUST events at 1314V3-24. See Attachment 16, page 10 for the area covered by the HAA. See Site 1314V3-24 for further details.

The following information has been modified from ISGS #1314:

A magnetometer survey was conducted in July 2002. Three magnetic anomalies were detected. The first anomaly centered on a point approximately 40 m (131 ft) west of I-74 and 26 m (85 ft) south of 5th Avenue. The second anomaly centered on a point approximately 25 m (82 ft) west of I-74 and 11 m (36 ft) south of 5th Avenue. The third anomaly, the largest of the three, was centered on a point approximately 16.5 m (54 ft) west of I-74 and 14.5 m (48 ft) south of 5th Avenue.

It is unknown if the detected anomaly is associated with an UST, and its status is unknown.

No information was available from the Moline Fire Department concerning USTs at this site.

In one of four boreholes completed at this site for ISGS #1314 in 2002, VOCs were detected. See ISGS #1314 for details.

Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with print shops include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The date of first development of the site is unknown.
- The status and location of any undocumented UST(s) at this site are unknown.
- It is unknown if the detected anomaly is associated with an UST, and its status is unknown.

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

The following RECs were identified at this site: Potential UST(s); potential former chemical use; presence on LUST and BOL lists (however see above); impacted soil and groundwater; HAA; VOCs detected in previous ISGS testing.

The following de minimis condition was identified at this site: Transformers.

**Site 1314V3-56 (1314-31, 1314V2-54). Commercial building, 604-610 19th Street, Moline (southeast corner of 19th Street and 6th Avenue; approximate 6th Avenue station 6001+00 RT; Attachment 2, page 6).** This site is occupied by office space, an insurance company, and a chiropractor (see address table for listings). This site did not appear on any of the regulatory lists checked for this project.

On the 1892 through 1912 Sanborn maps, several residences were present at this site. The date of first development is unknown. On the 1938 through 1970 aerial photographs, and on the 1950 through 1970 Sanborn maps, a gasoline station was depicted with three USTs located approximately 18 m (60 ft) east of 19th Street and 18 m (60 ft) south of 6th Avenue. The status of these USTs are unknown. On the 1980 and later aerial photographs, the current commercial building was present. City directories from 1891 through 1932 listed individual names. City directories from 1939 through 1965 listed a gasoline station. City directories from 1977 through 2014 listed various commercial businesses. No potential hazards were identified in association with any of these occupants.

During site interviews completed for ISGS #1314 in 2002, Mr. Bloomer, the owner of a heating and air-conditioning business located in the old gasoline station part of the building, stated that he acquired the site in 1970. He stated the facility ceased operation as a gasoline station in the 1960s. He further stated that three USTs were removed in 1970. He said the USTs were located at the west edge of the northern end of the building.

In two of three boreholes completed at this site for ISGS #1314 in 2002, VOCs were detected. See ISGS #1314 for details.

Historic gas stations commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste



paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s).

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The date of first development is unknown.
- The status and location of any undocumented UST(s) at this site are unknown.

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

The following RECs were identified at this site: Former USTs; potential UST(s); potential former chemical use; VOCs detected in previous ISGS testing.

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

**Site 1314V3-57 (1314V-25, 1314V2-55). Old Chamber Building, 622 19th Street, Moline (northeast corner of 19th Street and 7th Avenue; approximate station 7010+00 LT of 7<sup>th</sup> Avenue; Attachment 2, page 6).** This site is occupied by law offices with a parking lot to its east. A pole-mounted transformer was observed near the northeast corner of the site, and a pad-mounted transformer was observed along the southeast corner of the building. This site did not appear on any of the regulatory lists checked for this project.

On the 1906 through 1950 Sanborn maps, and on the 1938 aerial photograph, four residences were present at this site. The date of first development is unknown. On the 1958 through 1970 aerial photographs, a different commercial building was depicted on the west side of the site and residences on the east side of the site. On the 1957 through 1970 Sanborn maps, the commercial building is labeled offices. Aerial photographs from 1980 and later depicted the current building and parking lot. City directories from 1891 through 1945 listed individual names. The 1953 through 1971 city directories listed various commercial businesses. Occupants with potential hazards included a painting business (1958). City directories from 1975 through 2004 listed the Chamber of Commerce. City directories from 2014 listed law offices.

Potential hazards associated with paint businesses include VOCs and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gap was identified at this site:

- The date of first development is unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and

furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

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

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

**Site 1314V3-59 (1314-32, 1314V-23, 1314V2-57). Residence, 1924 6th Avenue, Moline (south west corner of 6th Avenue and I-74; approximate 6th Avenue station 6002+50 RT; Attachment 2, page 6).** This site is occupied by a single-family residence. This site did not appear on any of the regulatory lists checked for this project.

On the 1912 Sanborn map, a different residence was depicted, with an UST mapped approximately 41 m (135 ft) south of 6th Avenue and 76 m (250 ft) east of 19th Street. The status of this UST is unknown. The date of first development is unknown. On the 1938 and later aerial photographs, and on the 1950 through 1970 Sanborn maps, the current residence was present.

No UST information was available from the Moline Fire Department for this site.

In two boreholes completed at this site for ISGS #1314 in 2002, no VOCs were detected. See ISGS #1314 for details.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gaps were identified at this site:

- The status of the UST depicted on Sanborn maps is unknown.
- The date of first development is unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Evidence from aerial photographs indicates that this residence was constructed before 1978. Lead paint was banned for residential use in the United States in 1978, and therefore lead paint may be present in this building.

The following REC was identified at this site: Potential UST.

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

**Site 1314V3-60 (1314V-24, 1314V-26, 1314V2-58, 1314V2-59). Vacant lot, 2000 block of 6th Avenue, Moline (southwest corner of 6th Avenue and 21st Street; approximate 6th Avenue station 6006+00 RT; Attachment 2, page 6).** This site is occupied by a vacant gravel lot. Remnants of an asphalt parking lot were observed on its south side. This site did not appear on any of the regulatory lists checked for this project.

On the 1912 through 1970 Sanborn maps, residences and a funeral home were depicted. The date of first development is unknown. Aerial photographs from 1938 through 1980 depicted the same residences and a large residence at the funeral home location. Aerial photographs from 1988 through 2014 depicted a residence at the funeral home location and a single residence on the southwest corner of the site. Aerial photographs from 2015 depicted the current vacant lot. City directories from 1891 through 1917 listed individual names. City directories from 1925 listed a funeral home and residences. City directories from

1939 through 1987 listed a funeral home, a beauty shop, and residences. City directories from 1992 through 2014 listed a funeral home, a florist, and residences. During fieldwork for ISGS #1314V2 in 2013, this site was occupied by a funeral home and a florist.

Potential hazards associated with funeral homes include acids, VOCs, and metals.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was observed at this site during site inspections by ISGS on May 10, 11, and July 21, 2016.

The following data gap was identified at this site:

- The date of first development is unknown.

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

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

No de minimis conditions were identified at this site.

# B

## Boring Logs



# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-01-B01**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-1, IDOT ROW**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/6/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51253580660; W90.51273274030**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	75	0.0	
		FILL: Black, sandy clay, with trace small gravel and slag, stiff, moist.			
-5		FILL: Same as above, but with wood pieces.	50	0.0	
		SILTY CLAY: Gray, soft, moist.		0.0	

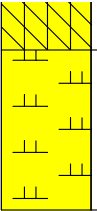



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-01-B01 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
-------	-------------	--	----------	-----------------	---

-10		<p>PEAT: Peaty material and coarse sand, dark brown, soft, saturated at 11 feet.</p>	100	0.0	 <p>Groundwater sample collected for VOC, SVOC, and total TAL metals analyses.</p>
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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-01-B02**

PROJECT: **FAI 74 (I-74)**

SITE LOCATION: **Moline, Rock Island County, IL**

SITE NAME: **ISGS #1314V3-1, IDOT ROW**

JOB NUMBER: **1009008.0046.01**

GEOLOGIST: **M. Fischer**

LOCATION: **N41.51228812130; W90.51269057970**

EQUIPMENT: **E & E Geoprobe 5410**

OPERATOR: **T. Pachowicz**

SAMPLING METHOD: **Macro Core**

DATE DRILLED: **12/6/16**

TOTAL DEPTH: **12 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Medium gravel, stiff, dry.			
		CLAY: Gray, stiff, with trace pebbles, dry.			
-5		CLAY: Becomes dark gray, soft and moist.	75	0.0	
		SILTY CLAY: Gray, soft, saturated to moist.		0.0	



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-01-B02 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10			100	0.0	
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-01-B03

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-1, IDOT ROW

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/6/16  
 TOTAL DEPTH: 8.4 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51204848240; W90.51265344780

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	75	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Black clay, medium gravel, coarse sand, medium stiff, dry.			
		FILL: Same as above.	50	0.0	
-5		CLAY: Dark gray, soft, moist.			

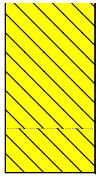


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-01-B03 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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CLAY: Same as above, then refusal at 8.4 feet.



0.0

0.0



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-01-B04

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-1, IDOT ROW

JOB NUMBER: 1009008.0046.01

GEOLOGIST: M. Fischer

LOCATION: N41.51174732060; W90.51257097000

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/6/16

TOTAL DEPTH: 11.2 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5 -10		FILL: Asphalt.	100	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Dark brown clay, black slag, coarse sand and medium gravel, stiff, dry.		0.0	
		FILL: Same as above.	75	0.0	6- to 11.2-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Gray and black, stiff, dry.		0.0	
SILTY CLAY: Gray, medium stiff, moist. Refusal at 11.2 feet.	7	0.0			
		0.0			



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-01-B05

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-1, IDOT ROW  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51151011300; W90.51236728940

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/6/16  
 TOTAL DEPTH: 12 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5		FILL: Asphalt. FILL: Brown and black clay, medium gravel and coarse sand, hard, dry. FILL: Same as above. SILTY CLAY: Dark brown, soft, moist. SILTY CLAY: Same as above. Refusal at 12.0 feet.	75 100	0.0 0.0 0.0 0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses. 6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-01-B05 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10			50	0.0	
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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-01-B06**

PROJECT: **FAI 74 (I-74)**

SITE LOCATION: **Moline, Rock Island County, IL**

SITE NAME: **ISGS #1314V3-1, IDOT ROW**

JOB NUMBER: **1009008.0046.01**

GEOLOGIST: **M. Fischer**

LOCATION: **N41.50755724970; W90.50888611980**

EQUIPMENT: **E & E Geoprobe 5410**

OPERATOR: **T. Pachowicz**

SAMPLING METHOD: **Macro Core**

DATE DRILLED: **12/6/16**

TOTAL DEPTH: **15 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, stiff, dry.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Brown, clay and small gravel, hard, dry.			
-5		CLAY: Brown, stiff, dry.			
			100	0.0	

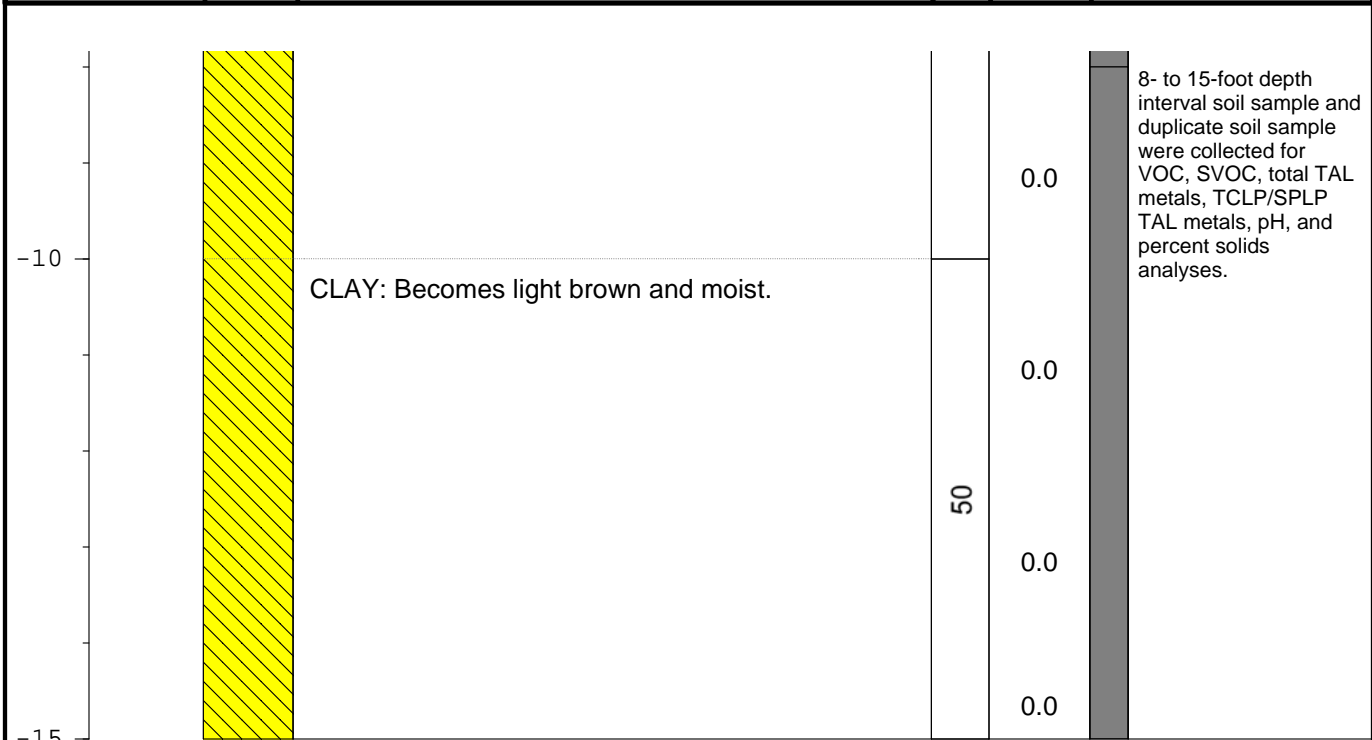


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-01-B06 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-01-B07

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-1, IDOT ROW

JOB NUMBER: 1009008.0046.01

GEOLOGIST: M. Fischer

LOCATION: N41.50723023020; W90.50880623970

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/6/16

TOTAL DEPTH: 12 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Brown, clay with medium gravel, hard, dry.	100	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above.	100	0.0	
		CLAY: Dark brown, stiff, dry.	100	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-10		CLAY: Grayish brown, medium stiff, moist.	100	0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-01-B08

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-1, IDOT ROW

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50687508930; W90.50877757390

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/6/16  
 TOTAL DEPTH: 9 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet    -5    		CONCRETE	100	0.0	0 to 4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Fine sand and gravel, loose, dry.			
		CLAY: Dark brown, medium stiff, dry.	100	0.0	4- to 9-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Light brown, medium stiff, moist.			
			100	0.0	
				0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-01-B09

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-1, IDOT ROW  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51043651660; W90.50892241250

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 11.6 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> </div> </div>		<p>TOPSOIL: Black silt, medium, moist</p> <p>FILL: Light brown, silt and very fine sand, with little fine to coarse gravel, stiff, moist.</p> <p>FILL: Same as above.</p> <p>FILL: Dark brown, silt with little fine gravel, medium, moist.</p> <p>FILL: Dark brown and dark gray, silt with little fine to coarse gravel, medium, moist.</p>	<p>95</p> <p>98</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 11.6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>

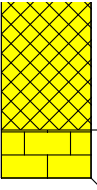



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-01-B09 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		LIMESTONE: Refusal at 11.6 on limestone.	83	0.0	
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-01-B10

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-1, IDOT ROW

EQUIPMENT: Stainless Steel Hand Auger  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Hand Auger  
 DATE DRILLED: 12/7/16  
 TOTAL DEPTH: 6 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50762912480; W90.50859887150

∇ Water level during drilling, if encountered

Boring continuously sampled using a hand auger.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL	100	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Brown, clay with small gravel, hard, dry.			
-5					



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-01-B11**

PROJECT: **FAI 74 (I-74)**

SITE LOCATION: **Moline, Rock Island County, IL**

SITE NAME: **ISGS #1314V3-1, IDOT ROW**

JOB NUMBER: **1009008.0046.01**

GEOLOGIST: **M. Fischer**

LOCATION: **N41.50718299770; W90.50833182370**

EQUIPMENT: **E & E Geoprobe 5410**

OPERATOR: **T. Pachowicz**

SAMPLING METHOD: **Macro Core**

DATE DRILLED: **12/5/16**

TOTAL DEPTH: **15 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, soft, moist.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Brown, stiff, dry.			
-5		CLAY: Grayish brown, medium stiff, moist.	100	0.0	

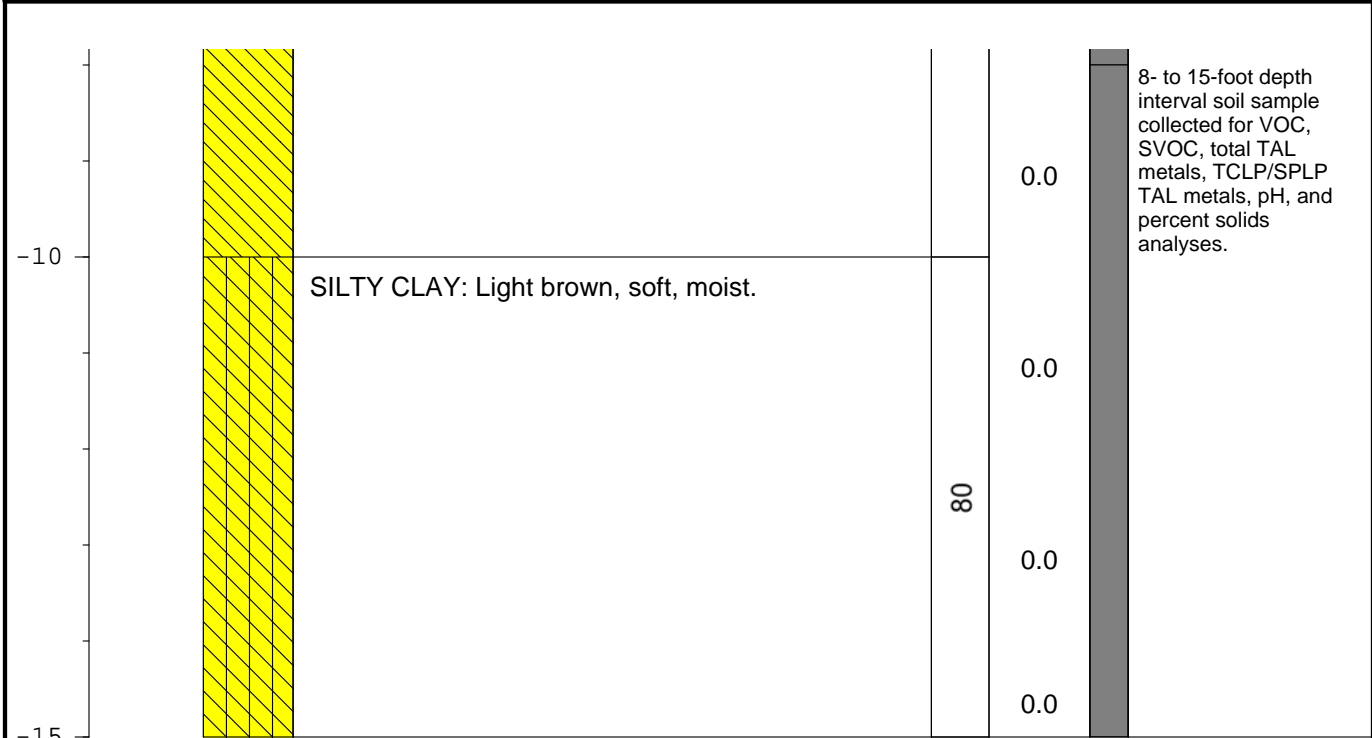


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-01-B11 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-02-B01

PROJECT: FAI 74 (I-74)  
SITE LOCATION: Moline, Rock Island County, IL  
SITE NAME: ISGS #1314V3-2, Mississippi River

EQUIPMENT: E & E Geoprobe 5410  
OPERATOR: T. Pachowicz  
SAMPLING METHOD: Macro Core  
DATE DRILLED: 12/8/16  
TOTAL DEPTH: 13 feet

JOB NUMBER: 1009008.0046.01  
GEOLOGIST: M. Fischer  
LOCATION: N41.51360663580; W90.50955097100

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Small gravel and silty sand, brown, stiff, dry.	100	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above, but moist.		0.0	
-7		CLAY: Gray and black, stiff, moist.	70	0.0	5- to 10-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.




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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-02-B01 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10				0.0	
		GRAVEL: Coarse, dense, moist.			
		GRAVEL: Same as above, but saturated at 11 feet, with wood and organic matter, loose.	10	0.0	Groundwater sample and duplicate sample were collected for VOC, SVOC, and total TAL metals analyses.
		0.0			



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-02-B02

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-2, Mississippi River**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/8/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51332835730; W90.51093758880**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>FILL: Medium gravel, brown clay, and coarse brown sand, hard, dry.</p> <hr/> <p>FILL: Same as above.</p> <hr/> <p>SILTY CLAY: Brown, soft, moist.</p> <hr/> <p>SILTY CLAY: Same as above, but with some pebbles and fine brown sand.</p>	<p>75</p> <hr/> <p>100</p> <hr/> <p>75</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for --- analyses.</p> <hr/> <p>6- to 12-foot depth interval soil sample and duplicate soil sample were collected for --- analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-04-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-4, City of Moline,  
 Water Department  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51246330350; W90.51304513450

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/6/16  
 TOTAL DEPTH: 12 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	75	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Hard, black clay, medium gravel, black slag, and coarse brown sand, stiff, dry.			
-5		FILL: Same as above.	75	0.0	
		CLAY: Gray, soft, moist.			
		SAND AND GRAVEL: Moist, coarse, stiff, saturated at 11 feet.		0.0	6 to 11-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-04-B01 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10			50	0.0	 <p>Groundwater sample collected for VOC, SVOC, and total TAL metals analyses.</p>
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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-05-B01**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-5, Industrial Building**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/9/16**  
 TOTAL DEPTH: **5 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51205665480; W90.51040282320**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Brown, sandy clay, with trace small gravel, medium stiff, dry.	100	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above, obstruction/refusal at 5.0 feet.	100	0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-05-B02

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-5, Industrial Building**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/9/16**  
 TOTAL DEPTH: **10.5 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51141057760; W90.51185557530**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, stiff, dry.	100	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-		FILL: Brown clay, small gravel and brick fragments, stiff, dry.			
-5		FILL: Same as above.	100	0.0	
-		SILTY CLAY: Brown, stiff, moist.			
-	SILTY CLAY: Same as above, but soft.		0.0	6- to 10.6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.	



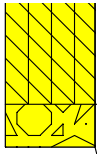
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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-05-B02 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10



SAND AND GRAVEL: Coarse, brown, loose, moist. Refusal at 10.5 feet.

100

0.0



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-05-B03**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-5, Industrial Building**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51117202860; W90.51166865870**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/9/16**  
 TOTAL DEPTH: **5.9 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, stiff, dry.	100	0.0	0 to 5.9-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
Feet		FILL: Brown clay, some small gravel, and trace coarse sand, stiff, dry.			
-5		FILL: Same as above. Refusal at 5.9 feet.	50	0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-06-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-6, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/8/16  
 TOTAL DEPTH: 8 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51301282030; W90.51078637880

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 <div style="border: 1px solid black; padding: 2px; width: 20px; margin: 5px auto;">Feet</div>		FILL: Dark brown clay, medium gravel, black, coarse sand and slag, medium stiff, dry.	75	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above, but with brick.	75	0.0	
		SILTY CLAY: Brown, soft, moist.		0.0	



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## Geoprobe Boring Log Number: 1314V3-06-B02

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-6, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/8/16  
 TOTAL DEPTH: 8 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51280071660; W90.51072628060

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Brown clay, dark brown, fine sand and small gravel, loose, moist.	50	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
				0.0	
-5		FILL: Same as above.	50	0.0	
				0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-06-B03**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-6, Vacant Land**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51251812010; W90.51052603750**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/8/16**  
 TOTAL DEPTH: **4 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Brown clay, with trace small gravel, hard, dry. Refusal at 4 feet on concrete.	100	0.0	0 to 4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5				0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-06-B04

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-6, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/13/16  
 TOTAL DEPTH: 5.2 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51212362610; W90.51010861950

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Tan silt, with little fine to coarse gravel, stiff, moist.	88	0.0	0 to 5.2-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, PCB, pH, and percent solids analyses.
		FILL: Dark brown loam, with some fine to coarse gravel, soft, moist.		0.0	
		FILL: Same as above.	100		
		FILL: Tan, fine sand, loose, moist.			
-5		FILL: Brown silt, with little coarse gravel, stiff, moist. Refusal at 5.2 feet.		0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-06-B05

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-6, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/13/16  
 TOTAL DEPTH: 8 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51183834790; W90.51039704030

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5		FILL: Tan, medium sand and medium to coarse gravel, loose, moist.	73	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, PCB, pH, and percent solids analyses.
		FILL: Black, medium sand and dark gray silty clay, medium, moist.			
		SILT: Dark brown, medium, moist.	53	0.0	
		SILT: Same as above.			
		SILT: Black to dark gray, soft, moist.			



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-06-B06

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-6, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/13/16  
 TOTAL DEPTH: 4 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51161958060; W90.51039729200

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p>-5</p> </div> </div>		<p>FILL: Brown, silty, medium sand, medium, moist.</p> <p>FILL: Brick.</p> <p>FILL: Tan, sandy, fine to coarse gravel, loose, dry.</p> <p>FILL: Black sand and coarse gravel and weathered asphalt, medium, moist, asphalt odor.</p> <p>NO RECOVERY: Refusal at 4 feet.</p>	<p>50</p>	<p>0.0</p> <p>0.0</p>	<p>0 to 4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-06-B08

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-6, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/13/16  
 TOTAL DEPTH: 10 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51152180540; W90.51077531580

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Brown, medium sand, medium, moist.	60	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Black, silty, fine sand, with little coarse gravel, loose, moist.		0.0	
-5		FILL: Same as above.	90	0.0	5- to 10-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		SILT: Black, medium, moist.		0.0	
-10		SILTY CLAY: Gray to tan, medium, moist.		0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-06-B09**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-6, Vacant Land**



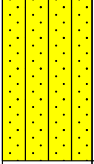
EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/13/16**  
 TOTAL DEPTH: **2 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.51164564840; W90.50996713260**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Brown, sandy loam, soft, moist.	100	0.0	0 to 2-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Weathered asphalt.			
		SILTY SAND: Black, silty, fine sand, with trace coarse gravel and seams of fine tan sand at 1.5 and 1.9 feet, medium, moist.			
-5					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-06-B10

PROJECT: FAI 74 (I-74)  
SITE LOCATION: Moline, Rock Island County, IL  
SITE NAME: ISGS #1314V3-6, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
OPERATOR: T. Pachowicz  
SAMPLING METHOD: Macro Core  
DATE DRILLED: 12/7/16  
TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
GEOLOGIST: M. Fischer  
LOCATION: N41.51187049300; W90.50882618780

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, hard, dry.	75	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SAND: Brown, fine, medium stiff, moist.			
-5		SAND: Same as above.	100	0.0	6- to 11-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SAND: Same as above.		0.0	

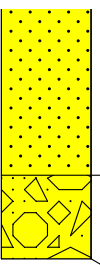

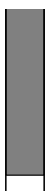


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-06-B10 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		 SAND AND GRAVEL: Coarse, dense, saturated, brown.	100	0.0  0.0	 Groundwater sample collected for VOC, SVOC, and total TAL metals analyses.
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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-06-B11**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-6, Vacant Land**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/7/16**  
 TOTAL DEPTH: **10.7 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51135018640; W90.50949204650**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Coarse sand, gravel, and clay, stiff, dry.	75	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SAND: Brown, fine, medium, stiff, moist.			
		SAND: Same as above.	75	0.0	6- to 10.7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SILTY CLAY: Brown, stiff, moist.			
		SILTY CLAY: Same as above.	75	0.0	
		SAND: Fine, brown and white, with some pebbles. Refusal at 10.7 feet.			
-10					



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# Illinois Department of Transportation


## Geoprobe Boring Log Number: 1314V3-07-B01

PROJECT: <b>FAI 74 (I-74)</b>	EQUIPMENT: <b>E &amp; E Geoprobe 5410</b>
SITE LOCATION: <b>Moline, Rock Island County, IL</b>	OPERATOR: <b>T. Pachowicz</b>
SITE NAME: <b>ISGS #1314V3-7, River Stone Moline Yard</b>	SAMPLING METHOD: <b>Macro Core</b>
JOB NUMBER: <b>1009008.0046.01</b>	DATE DRILLED: <b>12/7/16</b>
GEOLOGIST: <b>M. Fischer</b>	TOTAL DEPTH: <b>10 feet</b>
LOCATION: <b>N41.51348430240; W90.50948207200</b>	

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Light brown, silty sand and medium gravel, stiff, moist.	80	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above, but with brick and wood fragments.		0.0	
-10			60	0.0	Groundwater sample collected for VOC, SVOC, and total TAL metals analyses.



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-07-B02

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-7, River Stone Moline Yard  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51316143130; W90.50934988880

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/7/16  
 TOTAL DEPTH: 10 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Medium gravel, coarse black sand and slag, stiff, dry, petroleum odors.	50	3.6	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above, but loose and wet, strong petroleum odors, saturated at 5 feet, groundwater has sheen.		23.7	
-10			20	NR	
				NR	



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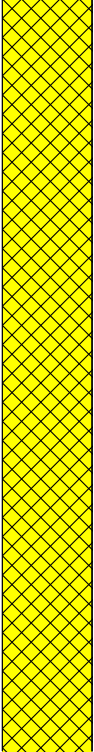
**Geoprobe Boring Log Number: 1314V3-07-B03**

PROJECT: <b>FAI 74 (I-74)</b>	EQUIPMENT: <b>E &amp; E Geoprobe 5410</b>
SITE LOCATION: <b>Moline, Rock Island County, IL</b>	OPERATOR: <b>T. Pachowicz</b>
SITE NAME: <b>ISGS #1314V3-7, River Stone Moline Yard</b>	SAMPLING METHOD: <b>Macro Core</b>
JOB NUMBER: <b>1009008.0046.01</b>	DATE DRILLED: <b>12/7/16</b>
GEOLOGIST: <b>M. Fischer</b>	TOTAL DEPTH: <b>5.5 feet</b>
LOCATION: <b>N41.51289606080; W90.50925584400</b>	

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Medium gravel, black, coarse sand and slag, stiff, dry to moist.			
			80	0.0	
				0.0	0 to 5.5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.

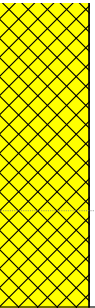



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-07-B03 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-5		FILL: Same as above, but with brick. Refusal at 5.5 feet.	100	0.0	
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## Geoprobe Boring Log Number: 1314V3-07-B04

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-7, River Stone Moline Yard  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51259481470; W90.50915216010

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/7/16  
 TOTAL DEPTH: 11 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
		FILL: Medium gravel, black coarse sand, slag, and brick, medium stiff, dry.	50	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Same as above.	50	0.0	
		CLAY: Black, soft, moist.		0.0	5- to 11-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SILTY CLAY: Grayish brown, very stiff, dry.	100	0.0	
				0.0	



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## Geoprobe Boring Log Number: 1314V3-08-B01

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-8, Commercial Building**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51211532770; W90.50896650170**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/6/16**  
 TOTAL DEPTH: **12 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>FILL: Medium gravel, loose, dry.</p> <p>FILL: Black slag, black clay, wood, stiff, moist.</p> <p>CLAY: Dark gray, medium stiff, moist.</p> <p>SILTY CLAY: Gray, soft, moist.</p> <p>SAND: Fine, brown, medium stiff, moist.</p>	<p>100</p> <p>100</p> <p>75</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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## Geoprobe Boring Log Number: 1314V3-11-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-11, Vacant Land

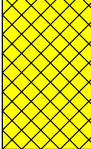
EQUIPMENT: Stainless Steel Hand Auger  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Hand Auger  
 DATE DRILLED: 12/8/16  
 TOTAL DEPTH: 1 foot

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51066354130; W90.51219101850

∇ Water level during drilling, if encountered

Boring continuously sampled using a hand auger.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Black topsoil, brown clay, and medium gravel, hard, dry.	100	0.0	0 to 1-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5					



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## Geoprobe Boring Log Number: 1314V3-11-B02

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-11, Vacant Land

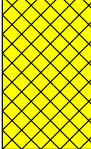
EQUIPMENT: Stainless Steel Hand Auger  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Hand Auger  
 DATE DRILLED: 12/8/16  
 TOTAL DEPTH: 1 foot

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51047209830; W90.51206780410

∇ Water level during drilling, if encountered

Boring continuously sampled using a hand auger.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Black topsoil, brown clay, medium gravel, hard, dry.	100	0.0	0 to 1-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-11-B03

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-11, Vacant Land

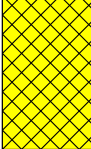
EQUIPMENT: Stainless Steel Hand Auger  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Hand Auger  
 DATE DRILLED: 12/8/16  
 TOTAL DEPTH: 1 foot

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51086185710; W90.51169229560

∇ Water level during drilling, if encountered

Boring continuously sampled using a hand auger.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Black topsoil, brown clay, and medium gravel, hard, dry.	100	0.0	0 to 1-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-17-B01

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-17, Parking Lot

JOB NUMBER: 1009008.0046.01

GEOLOGIST: M. Fischer

LOCATION: N41.50996771780; W90.51152046600

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/9/16

TOTAL DEPTH: 7 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, stiff, moist.	100	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Light brown, clay and fine sand, with trace small gravel, stiff, dry.			
-5		CLAY: Dark brown, with trace small gravel, hard, dry.	100	0.0	
				0.0	



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## Geoprobe Boring Log Number: 1314V3-17-B02

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-17, Parking Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/9/16  
 TOTAL DEPTH: 7 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50980024680; W90.51120094880

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, stiff, moist.	100	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Brown clay, medium gravel, and black fine sand, stiff, dry.			
		CLAY: Dark brown, medium stiff, dry.	100	0.0	
-5		SILTY CLAY: Brown, soft, moist.			



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## Geoprobe Boring Log Number: 1314V3-17-B03

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-17, Parking Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/9/16  
 TOTAL DEPTH: 7 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50958428750; W90.51092082500

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, stiff, moist.	100	0.0	0 to 7-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Brown clay, medium gravel, and coarse sand, loose, dry.			
		CLAY: Brown, hard, dry.			
-5		CLAY: Same as above.	100	0.0	
		SILTY CLAY: Brown, soft, moist.		0.0	



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## Geoprobe Boring Log Number: 1314V3-18-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-18, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 18 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51025798220; W90.50962473180

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Dark brown, silt, stiff, moist, with trace coarse gravel.</p> <p>FILL: Light brown, silt and very fine sand, with little fine to coarse gravel, stiff, moist.</p> <p>FILL: Light brown, fine sand with trace coarse gravel, medium, moist.</p>	<p>84</p> <p>54</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



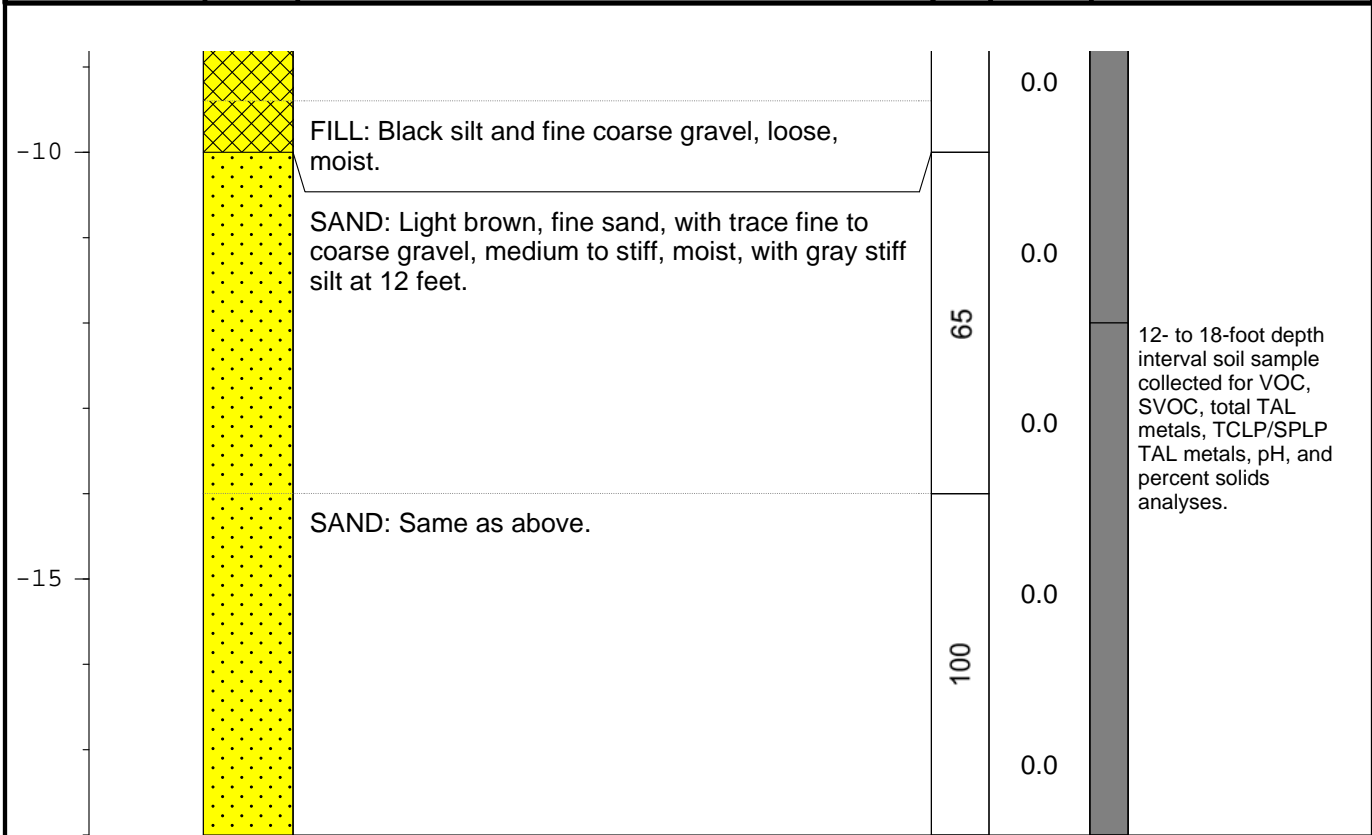
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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-18-B01 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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## Geoprobe Boring Log Number: 1314V3-18-B02

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-18, Vacant Land**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/14/16**  
 TOTAL DEPTH: **13 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.51030575920; W90.51036326150**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Dark brown silt, stiff, moist.	100	0.0	0 to 7-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.  7- to 13-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Light brown, silt and very fine sand, with trace medium gravel, stiff, moist.		0.0	
-5		FILL: Same as above.	98	0.0	
		FILL: Black, silt and fine to coarse gravel, loose, moist.	0.0		
-10		SAND: Grayish brown, fine sand, dense, wet.	0.0		
		SILT: Light brown, medium, moist.	52	0.0	
			0.0		



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## Geoprobe Boring Log Number: 1314V3-18-B03

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-18, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51056061150; W90.50978315000

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS	
0		FILL: Black, silt with some fine to coarse gravel, stiff, moist.	93	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.	
		FILL: Tan, silt and fine sand, with little fine to coarse gravel, stiff, moist.		0.0		
		FILL: Same as above.	63	0.0		
		FILL: Dark brown silt, soft, moist.		0.0		
-5		SILT: Black to dark brown, medium, moist.		0.0		6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SILT: Same as above.		0.0		








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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-18-B03 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		SAND: Light grayish brown, fine sand, soft, moist.	60	0.0	
		SAND AND GRAVEL: Light grayish brown, sand and fine to coarse gravel, medium, moist.		0.0	
		GRAVEL: Light brown, sandy, medium to coarse, dense, moist.		0.0	
		SHALE: Gray. Refusal at 12 feet.			



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-18-B04

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-18, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 5.3 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51093758730; W90.50940009730

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Brown silt and fine sand, with little fine gravel, stiff, moist.	85	0.0	0 to 5.3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Tan, silty, fine to coarse gravel, loose, moist.		0.0	
		FILL: Light brown, coarse sand, medium, moist.		0.0	
		FILL: Black silt, with little fine gravel, medium, moist.		0.0	
-5		FILL: Same as above. Refusal at 5.3 feet.	100	0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-18-B05

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-18, Vacant Land**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.51077510350; W90.50911301680**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/14/16**  
 TOTAL DEPTH: **12.2 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

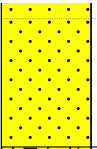
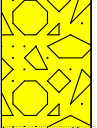
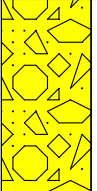
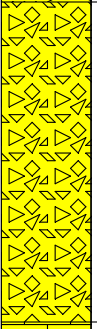

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Dark brown, silty loam, loose, moist.	55	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
Feet		FILL: Black sand and fine to medium gravel, loose, dry.			
		FILL: Brown and tan, silt with some coarse gravel, loose, dry.			
		SILT AND SAND: Reddish brown, silt and fine sand, very stiff, moist.			
		SILT AND SAND: Same as above.			
-5		SAND: Reddish brown, coarse, dense, moist.		0.0	



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-18-B05 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
		SAND: Reddish brown, very fine sand, medium, moist.	83		
		SAND AND GRAVEL: Reddish brown, coarse sand and fine gravel, medium, moist.		0.0	
		SAND AND GRAVEL: Reddish brown, coarse sand and fine gravel, with little coarse rounded gravel, medium, moist.		0.0	
-10		GRAVEL: Tan, fine to coarse, loose, wet.	75	0.0	
		LIMESTONE: Refusal at 12.2 feet.	0		

8- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-18-B06

PROJECT: <b>FAI 74 (I-74)</b>	EQUIPMENT: <b>E &amp; E Geoprobe 5410</b>
SITE LOCATION: <b>Moline, Rock Island County, IL</b>	OPERATOR: <b>T. Pachowicz</b>
SITE NAME: <b>ISGS #1314V3-18, Vacant Land</b>	SAMPLING METHOD: <b>Macro Core</b>
JOB NUMBER: <b>1009008.0046.01</b>	DATE DRILLED: <b>12/14/16</b>
GEOLOGIST: <b>E. Fisher</b>	TOTAL DEPTH: <b>17 feet</b>
LOCATION: <b>N41.51040563000; W90.50928534910</b>	

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Black and dark brown, silt, with some fine to coarse gravel, stiff, moist.</p> <hr/> <p>FILL: Light brown, silt and fine sand, with trace coarse gravel, stiff, moist.</p> <hr/> <p>FILL: Same as above.</p> <hr/> <p>FILL: Dark brown, silt and fine sand, stiff, moist.</p> <hr/> <p>FILL: Light brown to gray, silt and fine sand, with trace coarse gravel, stiff, moist.</p>	<p>95</p>     <p>98</p>	<p>0.0</p>     <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>     <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>

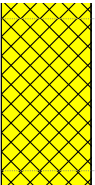








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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-18-B06 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
-10		FILL: Black, sand and fine to medium gravel, loose, moist.	95	0.0	
		FILL: Dark brown, silt and fine sand, stiff, moist, piece of wood at 12 feet.			
		FILL: Same as above.			
		LIMESTONE			
		SAND: Gray, medium sand, loose, moist.	68	0.0	12- to 17-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-15		SILT AND SAND: Dark gray, silt and very fine sand, medium, moist.			
		CLAYEY SILT: Gray, medium, moist.			



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-18-B07

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-18, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 8 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51100196000; W90.50932231250

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>CONCRETE</p> <hr/> <p>FILL: Tan, sandy, fine to coarse gravel, loose, moist.</p> <p>FILL: Reddish brown, silt and fine sand, with some fine to coarse gravel, stiff, moist.</p> <p>FILL: Light gray, sand and fine gravel, loose, moist.</p> <p>FILL: Reddish brown, silt and fine sand, with some fine to coarse gravel, stiff, moist.</p> <p>FILL: Same as above.</p> <p>FILL: Tan, sandy, fine to coarse gravel, loose, moist.</p> <p>SILT: Pink, stiff, moist.</p> <p>SAND: Brown, fine to medium sand, medium, moist.</p>	<p>83</p> <p>90</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-18-B08

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-18, Vacant Land

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 4.4 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.51096290040; W90.50925802390

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Brown, silt and fine sand, with little fine to coarse gravel, stiff, moist.	90	0.0	0 to 4.4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Black, silt with little coarse gravel, medium, moist.		0.0	

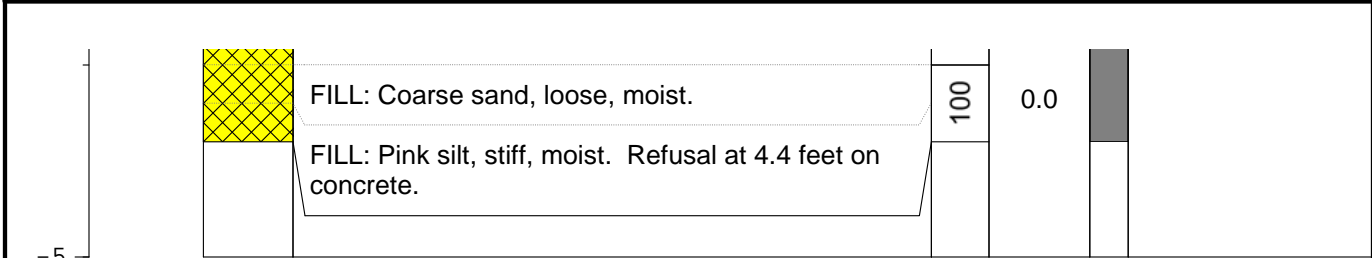


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-18-B08 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-18-B09

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-18, Vacant Land

JOB NUMBER: 1009008.0046.01

GEOLOGIST: E. Fisher

LOCATION: N41.51090271840; W90.50930839870

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/14/16

TOTAL DEPTH: 8 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5		FILL: Dark brown and brown, silt and fine sand, stiff, moist.	98	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Black, fine to coarse gravel, loose, moist.			
		FILL: Brown silt, medium, moist.			
		SAND: Brown, very fine sand, medium, moist.	60	0.0	
		SAND: Same as above.			
		SAND: Brown, medium sand, loose, moist.			
				0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-21-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-21, BNSF Railroad

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 11/29/16  
 TOTAL DEPTH: 10 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50993477660; W90.50950805560

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Medium gravel, black slag, and black coarse sand, medium, stiff, dry.	80	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Clay with fine sand, black, medium stiff, dry.		0.0	
-5		CLAY: Brown, medium stiff, dry.	80	0.0	5- to 10-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-10		SAND: Fine, light brown, medium stiff, moist.		0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-21-B02**

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-21, BNSF Railroad

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 11/29/16  
 TOTAL DEPTH: 6 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51009449370; W90.50895074290

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0          Feet          -5		TOPSOIL: Dark brown, medium stiff, dry.	100	0.0	0 to 6-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Medium gravel, coarse sand, and black slag, medium stiff, dry.			
		CLAY: Black, medium stiff, dry.			



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-24, John Deere  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50974928530; W90.50943932490

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/13/16  
 TOTAL DEPTH: 5.8 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 5px;">Feet</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; text-align: center;">0</div> <div style="position: absolute; bottom: 0; left: 0; right: 0; text-align: center;">-5</div> </div> </div>		<p>FILL: Asphalt.</p> <p>FILL: Tan, silty, fine to coarse gravel, loose, dry.</p> <p>BRICK</p> <p>FILL: Black sand, fine to coarse gravel, and weathered asphalt.</p> <p>FILL: Same as above. Refusal at 5.8 feet on concrete.</p>	<p style="font-size: 2em;">64</p> <p style="font-size: 2em;">100</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 5.8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-24-B02**

PROJECT: **FAI 74 (I-74)**

SITE LOCATION: **Moline, Rock Island County, IL**

SITE NAME: **ISGS #1314V3-24, John Deere**

JOB NUMBER: **1009008.0046.01**

GEOLOGIST: **E. Fisher**

LOCATION: **N41.50958734620; W90.50942180650**

EQUIPMENT: **E & E Geoprobe 5410**

OPERATOR: **T. Pachowicz**

SAMPLING METHOD: **Macro Core**

DATE DRILLED: **12/13/16**

TOTAL DEPTH: **10 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	76	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Light gray, silty, fine to coarse gravel, loose, dry.			
		FILL: Black sand and gravel and weathered asphalt, loose, moist.			
		FILL: Brick and tan sand.			
-5		SILT: Grayish brown to tan, medium, moist.			0.0

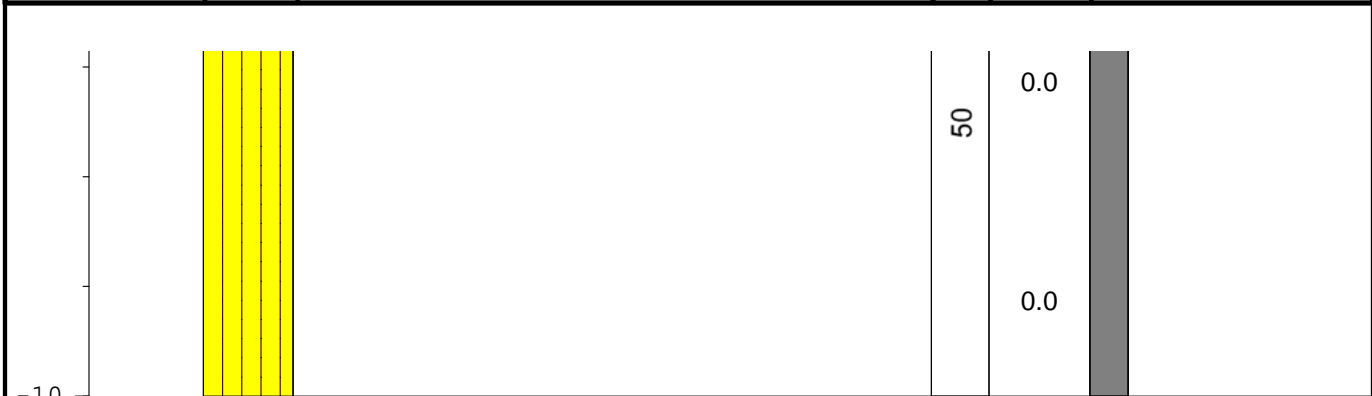


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-24-B02 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B03

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-24, John Deere

JOB NUMBER: 1009008.0046.01

GEOLOGIST: E. Fisher

LOCATION: N41.50931380340; W90.50933781910

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/13/16

TOTAL DEPTH: 10 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	64	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Weathered asphalt.			
		FILL: Black, silt with little gravel and weathered asphalt.		0.0	
		SILT: Light brown, medium, moist.		0.0	
-5		SILT: Same as above.		0.0	5- to 10-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.

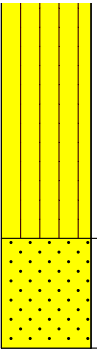



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-24-B03 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		SAND: Tan to orange, fine sand, medium, moist.	60	0.0  0.0	
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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-24-B04**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-24, John Deere**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.50917830980; W90.50914746720**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/13/16**  
 TOTAL DEPTH: **10 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	64	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Weathered asphalt, pieces of brick.			
		SILT: Black, soft, moist.			
-5		SILT: Black to gray to tan, soft, moist.		0.0	5- to 10-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.

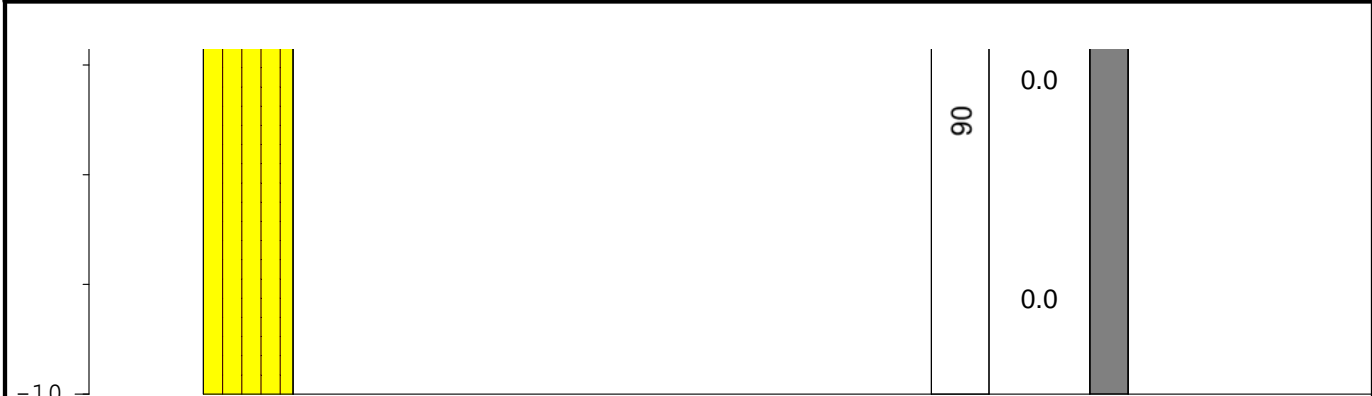


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-24-B04 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B05

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-24, John Deere  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50890086920; W90.50927059650

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/9/16  
 TOTAL DEPTH: 10 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Brown, loose, dry.	60	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Medium gravel, loose, dry.			
		CLAY: Brown, medium stiff, dry.	100	0.0	5- to 10-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		CLAY: Same as above.			
		SILTY CLAY: Soft, brown, moist.			
-10					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B06

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-24, John Deere

EQUIPMENT: Stainless Steel Hand Auger  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Hand Auger  
 DATE DRILLED: 12/9/16  
 TOTAL DEPTH: 4 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50862317620; W90.51011532540

∇ Water level during drilling, if encountered

Boring continuously sampled using a hand auger.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, loose, dry.	100	0.0	0 to 4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
Feet		FILL: Dark brown, sandy clay, with trace gravel, loose, dry.			
-5		FILL: Fine, light brown sand and small gravel, loose, dry.	100	0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B07

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-24, John Deere

JOB NUMBER: 1009008.0046.01

GEOLOGIST: M. Fischer

LOCATION: N41.50901536590; W90.50888318550

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/9/16

TOTAL DEPTH: 5 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Black, topsoil and small gravel, soft, moist.		0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		CLAY: Dark brown and black, soft, moist.	50	0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-24-B08**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-24, John Deere**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/9/16**  
 TOTAL DEPTH: **8 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50914012970; W90.50858604660**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

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



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B09

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-24, John Deere**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.50879986660; W90.50984861280**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/13/16**  
 TOTAL DEPTH: **4 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <div style="text-align: center;">0</div> <div style="text-align: center; height: 100px; border-left: 1px solid black; border-right: 1px solid black;"></div> <div style="text-align: center;">-5</div> </div> </div>		<p>FILL: Asphalt.</p> <p>FILL: Light gray, silty, fine to coarse gravel, loose, dry.</p> <p>FILL: Dark brown to brown, silt with little coarse gravel and medium sand seam at 1.8 feet.</p>	78	0.0  0.0	<p>0 to 4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B10

PROJECT: FAI 74 (I-74)	EQUIPMENT: E & E Geoprobe 5410
SITE LOCATION: Moline, Rock Island County, IL	OPERATOR: T. Pachowicz
SITE NAME: ISGS #1314V3-24, John Deere	SAMPLING METHOD: Macro Core
JOB NUMBER: 1009008.0046.01	DATE DRILLED: 12/13/16
GEOLOGIST: E. Fisher	TOTAL DEPTH: 5 feet
LOCATION: N41.50940181350; W90.50983972810	

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		FILL: Asphalt. FILL: Tan, silty, fine to coarse gravel, loose, moist. FILL: Light brown, coarse sand, loose, moist. FILL: Brick.	66	0.0  0.0  0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B11

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-24, John Deere

JOB NUMBER: 1009008.0046.01

GEOLOGIST: E. Fisher

LOCATION: N41.50905132400; W90.50949699250

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/14/16

TOTAL DEPTH: 12 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
		FILL: Asphalt.	78	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Grayish brown, silt, stiff, moist.			
		FILL: Black, silt with little medium gravel and weathered asphalt, loose, moist.			
		SILT: Black, medium, moist.	55	0.0	
		CLAYEY SILT: Black to dark brown, medium, moist.			
		CLAYEY SILT: Light brown, medium, moist.	0.0		
SILTY SAND: Light brown to tan, silty, very fine sand, medium, moist.		0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.		

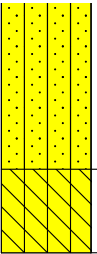



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-24-B11 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		CLAYEY SILT: Tan to pink, medium, moist.	70	0.0  0.0	
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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-24-B12**

PROJECT: **FAI 74 (I-74)**

SITE LOCATION: **Moline, Rock Island County, IL**

SITE NAME: **ISGS #1314V3-24, John Deere**

JOB NUMBER: **1009008.0046.01**

GEOLOGIST: **E. Fisher**

LOCATION: **N41.50901674900; W90.50944359930**

EQUIPMENT: **E & E Geoprobe 5410**

OPERATOR: **T. Pachowicz**

SAMPLING METHOD: **Macro Core**

DATE DRILLED: **12/14/16**

TOTAL DEPTH: **12 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.


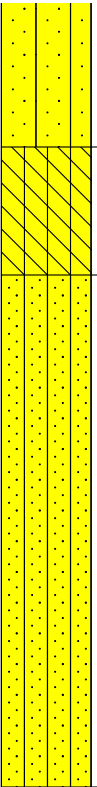

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	68	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		BRICK			
		FILL: Light brown silt, stiff, moist.			
		FILL: Black, silt and fine to coarse gravel, loose, moist.			
		SILT: Black, medium, moist.			
		SILT: Same as above.			
-5		SILT AND SAND: Dark brown to light brown, silt and very fine sand, medium, moist.		0.0	



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-24-B12 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
		<p>CLAYEY SILT: Pink, stiff, moist.</p> <p>SILTY SAND: Tan, very fine sand, with medium sand seam at 9.5 feet, soft, moist.</p>	<p>83</p> <p>63</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p>	 <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B13

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-24, John Deere  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50896226630; W90.50945960860

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 12 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Asphalt.</p> <p>FILL: Black, sand and fine to coarse gravel, loose, moist.</p> <p>SILT: Black, medium, moist.</p> <p>SILT: Same as above.</p> <p>SILT: Light brown, silt and very fine sand, medium, moist.</p> <p>CLAYEY SILT: Pink, stiff, moist.</p> <p>CLAYEY SILT: Same as above.</p>	<p>68</p> <p>80</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>

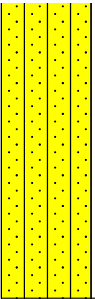



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-24-B13 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		<p>SILTY SAND: Tan, very fine sand, with medium sand seam at 10 feet, soft, moist.</p>	60	0.0  0.0	
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-24-B14

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-24, John Deere

JOB NUMBER: 1009008.0046.01

GEOLOGIST: E. Fisher

LOCATION: N41.50898984270; W90.50952934580

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/14/16

TOTAL DEPTH: 12 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	78	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Tan, silty gravel, loose, dry.			
		FILL: Light brown, silt, medium, moist.			
		FILL: Black, silt with some fine to medium gravel, loose, moist.			
		FILL: Light brown, silt, medium, moist.			
		SILT: Black, medium, moist.			
-5		SILT: Dark brown to tan, medium, moist.			

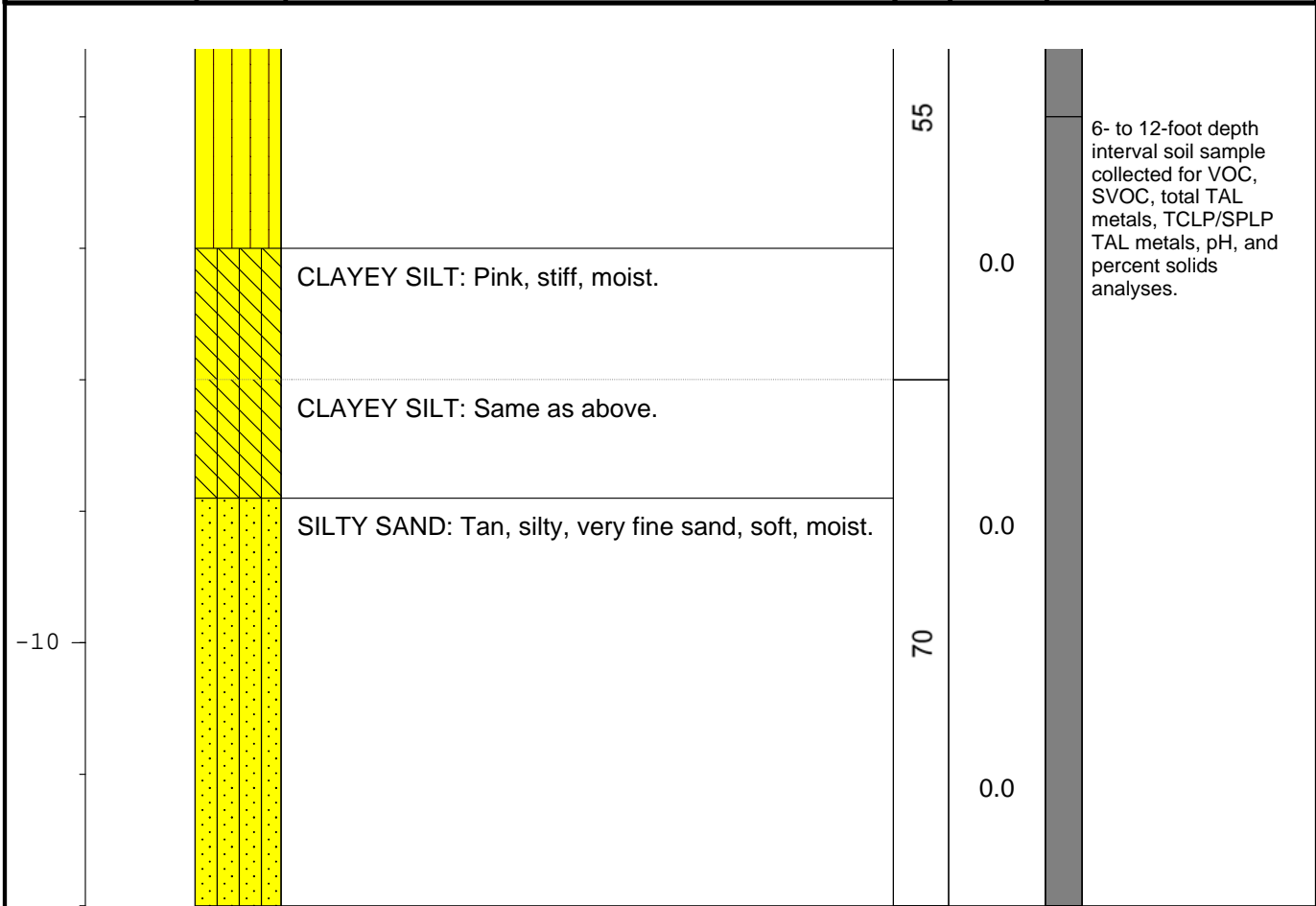


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-24-B14 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-25-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-25, Sivyer Steel Corp.

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 11/28/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.51023560230; W90.50819771330

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		CONCRETE			
		FILL: Dark brown, fine sand, brown slag, brick, medium stiff, dry.	75	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Dark brown, medium stiff, dry.		0.0	
-5		CLAY: Same as above.	50	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above.		0.0	
		CLAY: Same as above.	100	0.0	
-10		SILTY CLAY: Grayish brown, medium stiff, moist.		0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-25-B02**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-25, Sivyer Steel Corp.**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **11/28/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51034033430; W90.50791390210**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		CONCRETE	75	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Medium gravel, some dark brown slag and dark brown clay, dry, medium stiff.		0.0	
-5		CLAY: Dark brown, medium stiff, moist.	50	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above.	100	0.0	
-10		SILTY CLAY: Grayish brown, medium stiff, moist.		0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-25-B03**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-25, Sivyer Steel Corp.**  
  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50970523750; W90.50868528920**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **11/28/16**  
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5		CONCRETE CLAY: Dark brown, medium stiff, dry. FILL: Dark brown, slag, medium stiff, moist. SILTY CLAY: Medium stiff, dark brown, moist. SILTY CLAY: Same as above, but soft.	50  75	0.0  0.0  0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-25-B04

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-25, Sivyer Steel Corp.**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **11/28/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50994428980; W90.50877011340**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>CONCRETE</p> <p>CLAY: Dark brown, stiff, dry.</p> <p>SAND: Medium, fine sand, brown, stiff, dry.</p> <p>CLAY: Dark brown, medium stiff, dry.</p> <p>CLAY: Same as above.</p> <p>CLAY: Same as above, but light brown.</p> <p>CLAY: Light brown, soft, moist.</p>	<p>75</p> <p>100</p> <p>75</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-25-B05

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-25, Sivyer Steel Corp.**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **11/28/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50972753390; W90.50918937580**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Dark brown, stiff, moist.	50	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.  6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-		FILL: Dark brown clay, with medium gravel and coarse sand, medium stiff, moist.			
-5		FILL: Same as above.	50	0.0	
-		CLAY: Light brown, medium stiff, moist.			
-10	CLAY: Same as above.	100	0.0		



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-25-B06

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-25, Sivyer Steel Corp.

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 11/28/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50993934480; W90.50896666860

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		CONCRETE	50	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Dark brown slag, medium gravel, some brick, and some clay, stiff, dry.		0.0	
-5		CLAY: Brown, medium stiff, moist.	50	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-10		CLAY: Same as above, but light brown.	100	0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-25-B07**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-25, Sivyer Steel Corp.**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **11/28/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.51010752700; W90.50853684550**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0  Feet  -5  -10		CONCRETE	75	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Dark brown, slag, medium stiff, dry.		0.0	
		CLAY: Brown, medium stiff, dry.	50	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above, but dark brown.		0.0	
		CLAY: Same as above.	100	0.0	
SILTY CLAY: Grayish brown, medium soft, moist.	0.0				
				0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-26-B01**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-26, Commercial Building**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **8 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50956584720; W90.50857649170**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	75	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Black, clay with brick fragments and black slag, medium stiff, moist.			
		CLAY: Dark brown, medium stiff, moist.	50	0.0	
				0.0	
-5				0.0	
				0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-26-B02**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-26, Commercial Building**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **8 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50928823820; W90.50809931010**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	75	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Black and gray, stiff, dry.			
-5		CLAY: Brown and gray, medium stiff, moist.	75	0.0	
				0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-32-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-32, Commercial Building

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/15/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50811695130; W90.51084656220

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS			
0 Feet -5 -10		FILL: Tan, silty, fine to coarse gravel, loose, moist.	50	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.			
		FILL: Brown silt, medium, moist, interbedded with light brown, medium sand, medium, moist.						
		SILT: Light brown, medium, moist.				68	0.0	
		SAND: Light brown, very fine sand, medium, moist.						
		CLAYEY SILT: Pink, medium, moist.				73	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAYEY SILT: Same as above.						
	SAND: Light brown, very fine sand, with narrow seams of medium sand and fine gravel, medium, moist.		0.0					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-32-B02

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-32, Commercial Building**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/15/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.50808530980; W90.51075218200**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Light gray, silty, fine to coarse gravel, loose, dry.	83	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Brown, silt with little coarse gravel, medium, moist.		0.0	
		SILT: Black to brown, medium, moist.	0.0		
-5		SILT: Light orangey brown, medium, moist.	85	0.0	
		SILT AND SAND: Light brown and very fine sand, soft, moist.		0.0	
		CLAYEY SILT: Pink, medium, moist.	68	0.0	
-10		SAND: Light brown, very fine sand, medium, moist.		0.0	



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## Geoprobe Boring Log Number: 1314V3-32-B03

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-32, Commercial Building

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/15/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50801758440; W90.51077372290

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5 -10		FILL: Light gray, silty, fine to coarse gravel, loose, dry.	63	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Light brown, medium sand, loose, moist.		0.0	
		FILL: Same as above, interbedded with dark brown silt, medium, moist.	45	0.0	
		NO RECOVERY		NR	
		FILL: Same as above.	58	0.0	
SAND: Light brown, very fine sand, medium, moist.	0.0				



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-32-B04

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-32, Commercial Building

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/15/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50802848010; W90.51088914210

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0  Feet  -5  -10		<p>CONCRETE</p> <p>FILL: Light grayish brown, silt and fine to medium gravel, dense, moist.</p> <p>FILL: Dark brown silt, medium, moist.</p> <p>SILT AND SAND: Light orangey-brown, silt and very fine sand, medium, moist.</p> <p>CLAYEY SILT: Pink, medium, moist.</p> <p>SAND: Light brown, very fine sand, medium moist.</p> <p>SAND: Same as above.</p>	68   70   70	0.0  0.0  0.0  0.0  0.0	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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## Geoprobe Boring Log Number: 1314V3-32-B05

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-32, Commercial Building  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50809113490; W90.51091219190

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/15/16  
 TOTAL DEPTH: 3 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		CONCRETE			0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Tan, silty, fine to medium gravel, dense, moist.	SS	0.0	
		FILL: Light brown, sand and medium gravel, loose, moist.		0.0	
		FILL: Light gray, medium to coarse gravel, loose, moist.		0.0	
		FILL: Dark brown, silt with trace coarse gravel, soft, moist.		0.0	
-5					



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## Geoprobe Boring Log Number: 1314V3-32-B06

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-32, Commercial Building

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/15/16  
 TOTAL DEPTH: 3 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50787865420; W90.51076995150

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		SILT: Dark brown, with trace coarse gravel, soft, moist.	93	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
				0.0	
-5					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-32-B07

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-32, Commercial Building

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/1/16  
 TOTAL DEPTH: 3 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50755905210; W90.51052302070

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, medium stiff, moist.	100	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Dark brown, soft, moist.			
-5					



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-32-B08**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-32, Commercial Building**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **3 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50743625750; W90.51042302470**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, medium stiff, moist.	100	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Dark brown, medium stiff, moist.			
-5					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-33-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-33, Parking Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50837733500; W90.51016109040

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>FILL: Tan, sandy, fine to coarse gravel, loose, dry.</p> <p>FILL: Dark brown, silt with trace fine gravel, stiff, moist.</p> <p>SILT: Light orangey brown, medium, moist.</p> <p>SILT: Same as above.</p> <p>SAND: Light brown, very fine sand, medium, moist, with pink clayey silt at 8 feet.</p> <p>SAND: Same as above.</p>	<p>80</p> <p>88</p> <p>73</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-33-B02

PROJECT: FAI 74 (I-74)

SITE LOCATION: Moline, Rock Island County, IL

SITE NAME: ISGS #1314V3-33, Parking Lot

JOB NUMBER: 1009008.0046.01

GEOLOGIST: E. Fisher

LOCATION: N41.50848110310; W90.50993134210

EQUIPMENT: E & E Geoprobe 5410

OPERATOR: T. Pachowicz

SAMPLING METHOD: Macro Core

DATE DRILLED: 12/15/16

TOTAL DEPTH: 9.2 feet

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5		FILL: Dark brown, silt with some fine gravel, stiff, moist.	78	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Light brown, medium sand, medium, moist.			
		FILL: Dark brown, silt with trace fine to coarse gravel, medium, moist.			
		FILL: Light brown, medium sand, loose, moist.			
		FILL: Same as above.			
		SAND: Light brown, medium sand, with some coarse gravel, loose, moist.	70	0.0	5- to 9.4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.

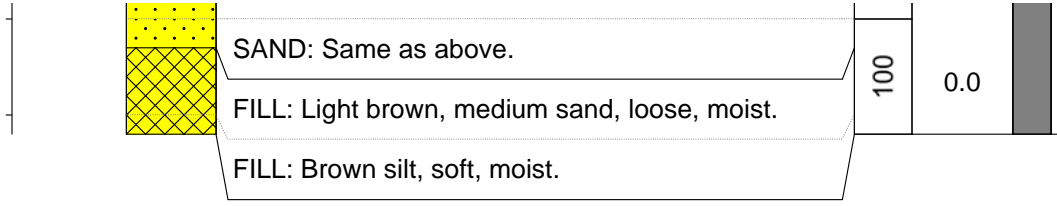


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-33-B02 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-33-B03**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-33, Parking Lot**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/14/16**  
 TOTAL DEPTH: **12 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.50833412660; W90.51005346650**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS			
0 Feet -5 -10		FILL: Tan, sandy, fine to coarse gravel, loose, dry.	83	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.			
		FILL: Dark brown, silt with trace fine gravel, stiff, moist.						
		SILT: Light orangey-brown, medium, moist.		95		0.0		
		SILT: Same as above.						
		SAND: Light brown, very fine sand, medium, moist, with pink clayey silt at 8 feet.		7		0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.	
		SAND: Same as above.						
							0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-33-B04

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-33, Parking Lot**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **E. Fisher**  
 LOCATION: **N41.50826480830; W90.51010292010**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/15/16**  
 TOTAL DEPTH: **12 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Tan, sand, fine to coarse gravel, loose, moist.</p> <hr/> <p>FILL: Dark brown and light brown, silt, soft, moist.</p> <hr/> <p>FILL: Yellow, very fine sand, loose, dry.</p> <hr/> <p>SILT AND SAND: Light brown, silt and very fine sand, soft, moist, with pink clayey silt at 7.6 feet.</p> <hr/> <p>SAND: Light brown, very fine sand, medium, moist.</p>	<p>80</p> <hr/> <p>50</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <hr/> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



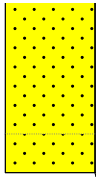
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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 1314V3-33-B04 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10



SAND: Gray, very fine sand, medium, moist, petroleum odor.

55

2.9



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-33-B05

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-33, Parking Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/15/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50828802600; W90.51022412240

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS	
0		FILL: Tan, sandy, fine to coarse gravel, loose, moist.	90	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.	
		FILL: Dark brown, silt with little fine gravel, medium, moist.		0.0		
		FILL: Light brown, silt, soft, moist.	80	0.0		
		FILL: Same as above.		0.0		
		FILL: Same as above.	85	0.0		6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SAND: Light brown, very fine sand, medium, moist.		0.0		
-10				0.0		



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-33-B06

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-33, Parking Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/15/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50816389020; W90.51054313760

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Tan, sandy, fine to coarse gravel, loose, moist.	68	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Dark brown silt, soft, moist, trace coarse gravel.		0.0	
-5		FILL: Light brown silt, soft, moist.	65	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SAND: Light brown, very fine sand, medium, moist.		0.0	
		CLAYEY SILT: Pink, medium, moist.	70	0.0	
		CLAYEY SILT: Same as above.		0.0	
-10		SAND: Light brown to tan, very fine sand, medium, moist.		0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-33-B07

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-33, Parking Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/14/16  
 TOTAL DEPTH: 8 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: E. Fisher  
 LOCATION: N41.50805743950; W90.50982078460

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Dark brown, silt with little fine gravel, loose, moist.	73	0.0	0 to 8-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Light brown, medium sand, loose, moist.			
		FILL: Dark brown, silt and very fine sand, stiff, moist.	88	0.0	
		SILT AND SAND: Light orangey-brown, silt and very fine sand, stiff, moist, trace fine gravel.			
		SILT AND SAND: Same as above.			
-5		SAND: Light brown, fine sand, medium, moist.		0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-56-B01

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-56, Commercial Building**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **3 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50725198130; W90.51006025550**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		CONCRETE			
		FILL: Black, clay and medium gravel, loose, dry.			
		CLAY: Brown, soft, moist.	100	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
				0.0	
-5					



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-56-B02

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-56, Commercial Building

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/1/16  
 TOTAL DEPTH: 3 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50711124910; W90.51023082790

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Dark brown, soft, dry.	100	0.0	0 to 3-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Dark brown, medium stiff, moist.		0.0	
-5					



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-56-B03**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-56, Commercial Building**



EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **3 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50686691670; W90.51002413040**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		CONCRETE			
		CLAY: Brown, soft, moist.	100	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
				0.0	
-5					



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-57-B01**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-57, Old Chamber Building**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50669747680; W90.50997216220**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **3 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, soft, moist.	100	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Black, medium stiff, dry, with trace fine sand and small gravel.			
-5					



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-57-B02**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-57, Old Chamber Building**  
 JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50659622290; W90.50960805200**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **3 feet**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Dark brown, medium stiff, moist.	100	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Brown, very stiff, dry, with trace fine sand and medium gravel.		0.0	
-5					



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## Geoprobe Boring Log Number: 1314V3-57-B03

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-57, Old Chamber Building  
 JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50677966120; W90.50905761330

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/1/16  
 TOTAL DEPTH: 5 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Dark brown, medium stiff, moist.			0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Brown, very stiff, dry, with trace small gravel.	100	0.0	
-5				0.0	



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# Illinois Department of Transportation

**Geoprobe Boring Log Number: 1314V3-59-B01**

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-59, Residence**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/1/16**  
 TOTAL DEPTH: **10 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50748948210; W90.50941149690**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, soft, moist.	100	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SILTY CLAY: Grayish brown, soft, moist.		0.0	
		SILTY CLAY: Same as above.	100	0.0	5- to 10-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		SAND: Coarse, brown, medium stiff, moist.		0.0	
		SILTY CLAY: Gray, soft, moist.	100	0.0	
-10		SILTY CLAY: Same as above.		0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-60-B01

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-60, Vacant Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/5/16  
 TOTAL DEPTH: 11 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50774441780; W90.50809956190

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>TOPSOIL: Black, soft, moist.</p> <p>FILL: Medium gravel, medium stiff, moist.</p> <p>CLAY: Black to gray, medium stiff, moist.</p> <p>CLAY: Same as above, but gray.</p> <p>CLAY: Same as above, but brown.</p>	<p>75</p> <p>75</p> <p>100</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>6- to 11-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-60-B02

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-60, Vacant Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/5/16  
 TOTAL DEPTH: 7 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50752539860; W90.50804222920

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, soft, moist.	50	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Dark brown, soft, moist.			
-5		CLAY: Same as above.	100	0.0	
				0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-60-B03

PROJECT: **FAI 74 (I-74)**  
 SITE LOCATION: **Moline, Rock Island County, IL**  
 SITE NAME: **ISGS #1314V3-60, Vacant Lot**

EQUIPMENT: **E & E Geoprobe 5410**  
 OPERATOR: **T. Pachowicz**  
 SAMPLING METHOD: **Macro Core**  
 DATE DRILLED: **12/5/16**  
 TOTAL DEPTH: **9 feet**

JOB NUMBER: **1009008.0046.01**  
 GEOLOGIST: **M. Fischer**  
 LOCATION: **N41.50726765550; W90.50801624600**

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 5px;">Feet</div> </div>		<p>FILL: Brown, clay with medium gravel, medium stiff, moist.</p> <hr/> <p>CLAY: Dark brown, stiff, dry.</p> <hr/> <p>CLAY: Same as above, but soft and moist.</p>	<p>100</p> <hr/> <p>50</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 4-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <hr/> <p>4- to 9-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-60-B04

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-60, Vacant Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/5/16  
 TOTAL DEPTH: 5 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50739065920; W90.50731451310

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 5 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, medium stiff, moist.			0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Clay, brown, stiff, dry, and medium gravel, loose, dry.		0.0	
		CLAY: Dark brown, stiff, dry.	80	0.0	
-5				0.0	



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-60-B05

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-60, Vacant Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/5/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50763331530; W90.50753311240

∇ Water level during drilling, if encountered

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

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		TOPSOIL: Black, soft, moist.	50	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Medium gravel and brick, loose, moist.			
		CLAY: Dark brown, soft, moist.	75	0.0	
-5		CLAY: Same as above, but grayish brown.			
		CLAY: Same as above.	75	0.0	
-10		SILTY CLAY: Light brown, soft, moist.			



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# Illinois Department of Transportation

## Geoprobe Boring Log Number: 1314V3-60-B06

PROJECT: FAI 74 (I-74)  
 SITE LOCATION: Moline, Rock Island County, IL  
 SITE NAME: ISGS #1314V3-60, Vacant Lot

EQUIPMENT: E & E Geoprobe 5410  
 OPERATOR: T. Pachowicz  
 SAMPLING METHOD: Macro Core  
 DATE DRILLED: 12/5/16  
 TOTAL DEPTH: 12 feet

JOB NUMBER: 1009008.0046.01  
 GEOLOGIST: M. Fischer  
 LOCATION: N41.50783540370; W90.50784156630

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.  
 Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>FILL: Medium gravel and coarse sand, medium, stiff, dry.</p> <hr/> <p>FILL: Same as above.</p> <hr/> <p>CLAY: Brown, medium, stiff, dry.</p> <hr/> <p>CLAY: Same as above.</p>	<p>50</p> <hr/> <p>100</p> <hr/> <p>100</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <hr/> <p>6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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# C

## Summary of Analytical Results





**Analytical Data Summary**  
**PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01**

**Key to Data Tables**

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.

**Criteria Qualifiers and Shading**

- # = pH is less than 6.25 or greater than 9.0 standard units.
- \*\* = Headspace reading is above 1.0 photoionization detector (PID) units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- \* = Concentration exceeds the MAC for Chicago corporate limits.
- r = Concentration exceeds the TACO Tier 1 RO for residential exposure.
- c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
- W1 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater.
- W1,2 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 and Class 2 groundwater.

-  = Headspace reading exceeds background levels
-  = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.
-  = Concentration exceeds the most stringent MAC and the MAC for Chicago corporate limits.
-  = Concentration exceeds applicable comparison criteria.

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-1 (IDOT ROW)					Comparison Criteria						
	1314V3-01-B01			1314V3-01-B02	1314V3-01-B03	MACs			TACO			
BORING	1314V3-01-B01 (0-6)	1314V3-01-B01 (6-11)	1314V3-01-G01	1314V3-01-B02 (0-8)	1314V3-01-B03 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater
SAMPLE												
MATRIX	Soil	Soil	Water	Soil	Soil							
DEPTH (feet)	0-6	6-11	--	0-8	0-8							
pH	8.2	7.7	--	7.7	9.4 #							
<b>VOCs (soil: mg/kg, water: mg/L)</b>												
2-Butanone (MEK)	0.011	0.012	ND U	0.0072	0.0096	--	--	--	--	--	--	--
Acetone	0.062	0.054	ND U	0.04	0.053	25	--	--	70,000	100,000	--	6.3
<b>SVOCs (soil: mg/kg, water: mg/L)</b>												
2-Methylnaphthalene	0.017 J	ND U	ND U	ND U	0.008 J	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	0.028 J	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	0.0059 J	ND U	ND U	ND U	0.0082 J	--	--	--	--	--	--	--
Anthracene	0.022 J	ND U	ND U	ND U	0.019 J	12,000	--	--	23,000	610,000	--	2.1
Benzo(a)anthracene	0.077	ND U	ND U	0.012 J	0.045	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo(a)pyrene	0.069	ND U	ND U	0.015 J	0.05	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo(b)fluoranthene	0.09	ND U	ND U	ND U	0.065	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo(g,h,i)perylene	0.029 J	ND U	ND U	ND U	0.035 J	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.042	ND U	ND U	ND U	0.024 J	9	--	--	9	1,700	--	0.00017
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.074	ND U	ND U	0.016 J	0.048	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Diethyl phthalate	ND U	ND U	0.00032 J	0.22	0.15 J	470	--	--	2,000	2,000	--	5.6
Fluoranthene	0.16	0.016 J	ND U	0.036 J	0.11	3,100	--	--	3,100	82,000	--	0.28
Fluorene	0.0084 J	ND U	ND U	ND U	0.026 J	560	--	--	3,100	82,000	--	0.28
Indeno(1,2,3-cd)pyrene	0.026 J	ND U	ND U	ND U	0.028 J	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.013 J	ND U	ND U	ND U	0.012 J	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.11	0.017 J	ND U	0.026 J	0.082	--	--	--	--	--	--	--
Pyrene	0.14	0.013 J	ND U	0.034 J	0.1	2300	--	--	2,300	61,000	--	0.21
<b>Inorganics (soil: mg/kg, water: mg/L)</b>												
Antimony	1 J	0.43 J	ND U	0.55 J	0.51 J	5	--	--	31	82	--	0.006
Arsenic	4.2	2	0.0015	4.1	4.7	11.3	13	--	13	61	--	0.05
Barium	83	49	0.31	91	73	1,500	--	--	5,500	14,000	--	2
Beryllium	0.66	0.37	ND U	0.56	0.56	22	--	--	160	410	--	0.004
Boron	15	6.8	1.5	6.5	7	40	--	--	16,000	41,000	--	2
Cadmium	1.9	0.15	ND U	0.24	0.58	5.2	--	--	78	200	--	0.005
Calcium	41,000	8,400	230	29,000	34,000	--	--	--	--	--	--	--
Chromium	10	8.6	0.0098 J	13	13	21	--	--	230	690	--	0.1
Cobalt	5.7	4.8	0.0013	5.8	6.2	20	--	--	4,700	12,000	--	1
Copper	25	8.7	0.0018 J	14	19	2,900	--	--	2,900	8,200	--	0.65
Iron	18,000 †m	13,000	29 W1,2	15,000	16,000 †m	15,000	15,900	--	--	--	--	5
Lead	78	13	0.004	21	45	107	--	--	400	700	--	0.0075
Magnesium	2,300	3,700	37	2,400	6,000	325,000	--	--	--	730,000	--	--
Manganese	430	300	3 W1	390	760 †m	630	636	--	1,600	4,100	--	0.15
Mercury	0.12	0.012 J	ND U	0.17	0.18	0.89	--	--	10	0.1	--	0.002
Nickel	13	12	0.0075	12	14	100	--	--	1,600	4,100	--	0.1
Potassium	1,200	650	21	1,000	1,300	--	--	--	--	--	--	--
Selenium	ND U	0.37 J	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05
Silver	0.084 J	ND U	ND U	ND U	0.068 J	4.4	--	--	390	1,000	--	0.05
Sodium	380	180	230	170	490	--	--	--	--	--	--	--
Thallium	0.96	0.68	ND U	0.87	1.3	2.6	--	--	6.3	160	--	0.002
Vanadium	17	15	ND U	20	21	550	--	--	550	1,400	--	0.049
Zinc	1,100	48	0.027	55	160	5,100	--	--	23,000	61,000	--	5
<b>TCLP Metals (mg/L)</b>												
Barium	0.95	0.68	NA	1	0.66	--	--	--	--	--	2	--
Boron	0.27 J	0.22 J	NA	0.14 J	0.22 J	--	--	--	--	--	2	--
Cadmium	ND U	0.0021 J	NA	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	0.023 J	0.036	NA	0.017 J	0.016 J	--	--	--	--	--	1	--
Iron	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	5	--
Lead	0.014 L	ND U	NA	ND U	0.012 L	--	--	--	--	--	0.0075	--
Manganese	3.3 L	5.3 L	NA	6.2 L	6.2 L	--	--	--	--	--	0.15	--
Nickel	0.025	0.04	NA	0.017 J	0.024 J	--	--	--	--	--	0.1	--
Zinc	0.23 J	0.15 J	NA	0.071 J	0.87	--	--	--	--	--	5	--
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	0.014 L	NA	NA	NA	ND U	--	--	--	--	--	0.0075	--
Manganese	0.02 J	0.077	NA	0.27 L	0.012 J	--	--	--	--	--	0.15	--

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-1 (IDOT ROW)				Comparison Criteria							
	1314V3-01-B04		1314V3-01-B05		MACs			TACO				
BORING	1314V3-01-B04 (0-6)		1314V3-01-B05 (0-6)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
SAMPLE	1314V3-01-B04 (0-6)	1314V3-01-B04 (6-12)	1314V3-01-B05 (0-6)	1314V3-01-B05 (6-12)								
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-6	6-12	0-6	6-12								
pH	9.3 #	7.7	8.5	8.2								
<b>VOCs (soil: mg/kg, water: mg/L)</b>												
2-Butanone (MEK)	0.013	ND U	0.02	0.02	--	--	--	--	--	--	--	
Acetone	0.072	0.033	0.09	0.097	25	--	--	70,000	100,000	--	6.3	
<b>SVOCs (soil: mg/kg, water: mg/L)</b>												
2-Methylnaphthalene	0.063 J	ND U	0.083	0.039 J	--	--	--	--	--	--	--	
Acenaphthene	0.22	ND U	0.086	0.11	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	0.016 J	ND U	0.038	0.0053 J	--	--	--	--	--	--	--	
Anthracene	0.65	ND U	0.28	0.28	12,000	--	--	23,000	610,000	--	2.1	
Benzo(a)anthracene	1.4 †	ND U	0.51	0.47	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo(a)pyrene	1.2 †	ND U	0.43 †	0.37 †	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo(b)fluoranthene	1.8 ††	0.01 J	0.54	0.47	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo(g,h,i)perylene	0.44	ND U	0.14	0.12	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	0.68	ND U	0.2	0.17	9	--	--	9	1,700	--	0.00017	
Carbazole	0.44	ND U	0.12 J	0.13 J	0.6	--	--	32	6,200	--	--	
Chrysene	1.4	ND U	0.49	0.41	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	0.14 †	ND U	0.043	0.038 J	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	0.1 J	ND U	0.062 J	0.08 J	--	--	--	--	--	--	--	
Diethyl phthalate	ND U	0.11 J	ND U	ND U	470	--	--	2,000	2,000	--	5.6	
Fluoranthene	4.1	0.0099 J	1.1	1	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	0.22	ND U	0.11	0.1	560	--	--	3,100	82,000	--	0.28	
Indeno(1,2,3-cd)pyrene	0.46	ND U	0.14	0.12	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	0.08	ND U	0.077	0.042	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	2.3	0.0069 J	1.1	1.1	--	--	--	--	--	--	--	
Pyrene	2.4	0.0096 J	1	0.91	2300	--	--	2,300	61,000	--	0.21	
<b>Inorganics (soil: mg/kg, water: mg/L)</b>												
Antimony	0.49 J	ND U	4.7	0.68 J	5	--	--	31	82	--	0.006	
Arsenic	6.4	3.3	8.4	3.9	11.3	13	--	13	61	--	0.05	
Barium	110	110	120	100	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.73	0.58	0.55	0.57	22	--	--	160	410	--	0.004	
Boron	5.8	3.2	6.2	4.1	40	--	--	16,000	41,000	--	2	
Cadmium	0.51	0.23	0.49	0.26	5.2	--	--	78	200	--	0.005	
Calcium	11,000	4,000	7,500	9,800	--	--	--	--	--	--	--	
Chromium	16	16	17	15	21	--	--	230	690	--	0.1	
Cobalt	8.2	7.2	8.5	6.1	20	--	--	4,700	12,000	--	1	
Copper	25	12	35	23	2,900	--	--	2,900	8,200	--	0.65	
Iron	29,000 †m	17,000 †m	33,000 †m	20,000 †m	15,000	15,900	--	--	--	--	5	
Lead	51	16	41	57	107	--	--	400	700	--	0.0075	
Magnesium	3,500	3,000	3,700	3,300	325,000	--	--	--	730,000	--	--	
Manganese	380	710 †m	370	400	630	636	--	1,600	4,100	--	0.15	
Mercury	0.06	0.27	0.16	0.47	0.89	--	--	10	0.1	--	0.002	
Nickel	18	17	30	15	100	--	--	1,600	4,100	--	0.1	
Potassium	1,400	1,400	1,400	1,600	--	--	--	--	--	--	--	
Selenium	0.34 J	ND U	0.32 J	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	0.07 J	4.4	--	--	390	1,000	--	0.05	
Sodium	1,600	600	790	450	--	--	--	--	--	--	--	
Thallium	1.2	1.4	1.3	1	2.6	--	--	6.3	160	--	0.002	
Vanadium	26	21	26	17	550	--	--	550	1,400	--	0.049	
Zinc	190	59	120	110	5,100	--	--	23,000	61,000	--	5	
<b>TCLP Metals (mg/L)</b>												
Barium	1	0.52	0.85	0.6	--	--	--	--	--	2	--	
Boron	0.12 J	0.13 J	0.17 J	0.19 J	--	--	--	--	--	2	--	
Cadmium	0.0037 J	0.0024 J	0.0079 L	0.0022 J	--	--	--	--	--	0.005	--	
Cobalt	0.025	0.036	0.037	0.023 J	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	0.3 J	--	--	--	--	--	5	--	
Lead	0.014 L	0.019 L	0.025 L	0.025 L	--	--	--	--	--	0.0075	--	
Manganese	4.8 L	4.3 L	8 L	6.5 L	--	--	--	--	--	0.15	--	
Nickel	0.03	0.049	0.071	0.023 J	--	--	--	--	--	0.1	--	
Zinc	0.56	0.26 J	0.67	0.51	--	--	--	--	--	5	--	
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	NA	ND U	NA	--	--	--	--	--	0.005	--	
Lead	0.16 L	0.058 L	0.21 L	0.18 L	--	--	--	--	--	0.0075	--	
Manganese	0.94 L	1.2 L	1.2 L	0.99 L	--	--	--	--	--	0.15	--	

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-1 (IDOT ROW)					Comparison Criteria						
	1314V3-01-B06			1314V3-01-B07		MACs			TACO			
BORING	1314V3-01-B06 (0-8)	1314V3-01-B06 (8-15)	1314V3-01-B06 (8-15)D	1314V3-01-B07 (0-6)	1314V3-01-B07 (6-12)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater
SAMPLE	Soil	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	8-15	8-15	0-6	6-12							
pH	7.9	7.8	7.9	7.8	7.6							
<b>VOCs (soil: mg/kg, water: mg/L)</b>												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
<b>SVOCs (soil: mg/kg, water: mg/L)</b>												
2-Methylnaphthalene	0.021 J	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U	0.0052 J	ND U	--	--	--	--	--	--	--
Anthracene	0.022 J	ND U	ND U	0.0088 J	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo(a)anthracene	0.074	ND U	ND U	0.037	ND U	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo(a)pyrene	0.066	ND U	ND U	0.041	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo(b)fluoranthene	0.083	ND U	ND U	0.067	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo(g,h,i)perylene	0.038	ND U	ND U	0.017 J	ND U	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.033 J	ND U	ND U	0.021 J	ND U	9	--	--	9	1,700	--	0.00017
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.076	ND U	ND U	0.046	ND U	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	0.01 J	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Diethyl phthalate	0.076 J	ND U	ND U	ND U	ND U	470	--	--	2,000	2,000	--	5.6
Fluoranthene	0.18	ND U	0.0082 J	0.084	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno(1,2,3-cd)pyrene	0.034 J	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.012 J	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.12	0.0056 J	0.0069 J	0.046	ND U	--	--	--	--	--	--	--
Pyrene	0.15	ND U	ND U	0.076	ND U	2300	--	--	2,300	61,000	--	0.21
<b>Inorganics (soil: mg/kg, water: mg/L)</b>												
Antimony	0.28 J	0.33 J	ND U	0.41 J	0.34 J	5	--	--	31	82	--	0.006
Arsenic	4.1	4.5	3.8	4.1	2.9	11.3	13	--	13	61	--	0.05
Barium	77	84	82	74	82	1,500	--	--	5,500	14,000	--	2
Beryllium	0.55	0.53	0.51	0.52	0.46	22	--	--	160	410	--	0.004
Boron	4.9	2.5 J	2.2 J	4.8	2.4 J	40	--	--	16,000	41,000	--	2
Cadmium	0.34	0.15	0.17	0.28	0.17	5.2	--	--	78	200	--	0.005
Calcium	16,000	5,800	6,400	19,000	3,200	--	--	--	--	--	--	--
Chromium	12	15	14	11	13	21	--	--	230	690	--	0.1
Cobalt	5.3	7.4	5.8	5	5.1	20	--	--	4,700	12,000	--	1
Copper	14	12	12	13	10	2,900	--	--	2,900	8,200	--	0.65
Iron	13,000	16,000 †m	14,000	13,000	13,000	15,000	15,900	--	--	--	--	5
Lead	42	8.2	8.1	49	7.2	107	--	--	400	700	--	0.0075
Magnesium	4,800	3,400	4,000	5,100	2,300	325,000	--	--	--	730,000	--	--
Manganese	360	440	380	250	350	630	636	--	1,600	4,100	--	0.15
Mercury	0.2	0.029	0.019 J	0.18	0.011 J	0.89	--	--	10	0.1	--	0.002
Nickel	12	15	14	12	13	100	--	--	1,600	4,100	--	0.1
Potassium	980	930	920	940	870	--	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	290	210	210	510	130	--	--	--	--	--	--	--
Thallium	0.67	0.97	0.92	0.66	0.8	2.6	--	--	6.3	160	--	0.002
Vanadium	17	22	19	16	16	550	--	--	550	1,400	--	0.049
Zinc	88	36	33	65	32	5,100	--	--	23,000	61,000	--	5
<b>TCLP Metals (mg/L)</b>												
Barium	0.77	0.3 J	0.33 J	0.87	0.19 J	--	--	--	--	--	2	--
Boron	0.11 J	0.052 J	0.073 J	0.14 J	0.06 J	--	--	--	--	--	2	--
Cadmium	0.0028 J	ND U	ND U	0.003 J	ND U	--	--	--	--	--	0.005	--
Cobalt	0.017 J	ND U	ND U	0.022 J	ND U	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	0.013 L	ND U	ND U	0.013 L	ND U	--	--	--	--	--	0.0075	--
Manganese	4.1 L	0.043	0.097	5.6 L	ND U	--	--	--	--	--	0.15	--
Nickel	0.018 J	ND U	ND U	0.023 J	ND U	--	--	--	--	--	0.1	--
Zinc	0.13 J	0.022 J	ND U	0.16 J	ND U	--	--	--	--	--	5	--
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	0.054 L	NA	NA	0.017 L	NA	--	--	--	--	--	0.0075	--
Manganese	0.34 L	NA	NA	0.066	NA	--	--	--	--	--	0.15	--



PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-1 (IDOT ROW)				Comparison Criteria							
	1314V3-01-B08		1314V3-01-B09		MACs			TACO				
BORING	1314V3-01-B08 (0-4)		1314V3-01-B09 (0-6)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
SAMPLE	1314V3-01-B08 (0-4)	1314V3-01-B08 (4-9)	1314V3-01-B09 (0-6)	1314V3-01-B09 (6-11.6)								
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-4	4-9	0-6	6-11.6								
pH	7.7	7.7	8.6	8								
<b>VOCs (soil: mg/kg, water: mg/L)</b>												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
<b>SVOCs (soil: mg/kg, water: mg/L)</b>												
2-Methylnaphthalene	ND U	ND U	ND U	0.1	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	0.0091 J	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	0.013 J	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	ND U	0.031 J	12,000	--	--	23,000	610,000	--	2.1	
Benzo(a)anthracene	0.023 J	ND U	ND U	0.069	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo(a)pyrene	0.026 J	ND U	ND U	0.061	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo(b)fluoranthene	0.038 J	ND U	ND U	0.1	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo(g,h,i)perylene	0.017 J	ND U	ND U	0.036 J	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	0.015 J	ND U	ND U	0.037	9	--	--	9	1,700	--	0.00017	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	0.034 J	ND U	ND U	0.09	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	0.045 J	--	--	--	--	--	--	--	
Diethyl phthalate	ND U	ND U	ND U	ND U	470	--	--	2,000	2,000	--	5.6	
Fluoranthene	0.057	ND U	0.012 J	0.15	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	ND U	0.0097 J	560	--	--	3,100	82,000	--	0.28	
Indeno(1,2,3-cd)pyrene	0.016 J	ND U	ND U	0.027 J	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	ND U	ND U	0.065	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.032 J	ND U	0.011 J	0.17	--	--	--	--	--	--	--	
Pyrene	0.053	ND U	0.014 J	0.16	2300	--	--	2,300	61,000	--	0.21	
<b>Inorganics (soil: mg/kg, water: mg/L)</b>												
Antimony	0.27 J	0.27 J	0.46 J	0.44 J	5	--	--	31	82	--	0.006	
Arsenic	3.7	6.3	4.6	4.6	11.3	13	--	13	61	--	0.05	
Barium	100	76	35	55	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.48	0.49	0.44	0.56	22	--	--	160	410	--	0.004	
Boron	3	1.7 J	3.5	8.6	40	--	--	16,000	41,000	--	2	
Cadmium	0.22	0.31	0.11	0.35	5.2	--	--	78	200	--	0.005	
Calcium	7,400	2,500	36,000	26,000	--	--	--	--	--	--	--	
Chromium	12	13	10	12	21	--	--	230	690	--	0.1	
Cobalt	5.5	6.9	5.3	5.3	20	--	--	4,700	12,000	--	1	
Copper	11	11	11	15	2,900	--	--	2,900	8,200	--	0.65	
Iron	12,000	15,000	15,000	14,000	15,000	15,900	--	--	--	--	5	
Lead	48	7.4	8.5	14	107	--	--	400	700	--	0.0075	
Magnesium	1,900	2,100	19,000	13,000	325,000	--	--	--	730,000	--	--	
Manganese	490	770 †m	340	290	630	636	--	1,600	4,100	--	0.15	
Mercury	0.04	0.022	0.019	0.036	0.89	--	--	10	0.1	--	0.002	
Nickel	11	19	13	13	100	--	--	1,600	4,100	--	0.1	
Potassium	880	660	790	780	--	--	--	--	--	--	--	
Selenium	0.35 J	ND U	0.76	0.54	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	310	180	530	200	--	--	--	--	--	--	--	
Thallium	0.91	1.4	0.91	0.89	2.6	--	--	6.3	160	--	0.002	
Vanadium	16	22	18	18	550	--	--	550	1,400	--	0.049	
Zinc	41	31	34	66	5,100	--	--	23,000	61,000	--	5	
<b>TCLP Metals (mg/L)</b>												
Barium	0.32 J	0.23 J	0.8	0.99	--	--	--	--	--	2	--	
Boron	0.12 J	0.05 J	ND U	ND U	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	0.0034 J	0.0046 J	--	--	--	--	--	0.005	--	
Cobalt	ND U	ND U	0.023 J	0.021 J	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	0.008 L	--	--	--	--	--	0.0075	--	
Manganese	1.1 L	ND U	7 L	8 L	--	--	--	--	--	0.15	--	
Nickel	ND U	ND U	0.032	0.025	--	--	--	--	--	0.1	--	
Zinc	0.03 J	ND U	0.02 J	0.19 J	--	--	--	--	--	5	--	
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	NA	0.028 L	--	--	--	--	--	0.0075	--	
Manganese	0.29 L	NA	0.19 L	0.32 L	--	--	--	--	--	0.15	--	

**PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-1 (IDOT ROW)			Comparison Criteria							
	1314V3-01-B10	1314V3-01-B11		MACs			TACO				
BORING	1314V3-01-B10	1314V3-01-B11		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
SAMPLE	1314V3-01-B10 (0-6)	1314V3-01-B11 (0-8)	1314V3-01-B11 (8-15)								
MATRIX	Soil	Soil	Soil								
DEPTH (feet)	0-6	0-8	8-15								
pH	8.6	8.3	8.6								
<b>VOCs (soil: mg/kg, water: mg/L)</b>											
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
<b>SVOCs (soil: mg/kg, water: mg/L)</b>											
2-Methylnaphthalene	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo(a)anthracene	<b>0.043</b>	ND U	ND U	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo(a)pyrene	<b>0.057</b>	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo(b)fluoranthene	<b>0.073</b>	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo(g,h,i)perylene	<b>0.044</b>	ND U	ND U	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	<b>0.026 J</b>	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	<b>0.046</b>	ND U	ND U	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	<b>0.01 J</b>	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--	--	
Diethyl phthalate	ND U	ND U	ND U	470	--	--	2,000	2,000	--	5.6	
Fluoranthene	<b>0.063</b>	ND U	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno(1,2,3-cd)pyrene	<b>0.035 J</b>	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	ND U	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	<b>0.026 J</b>	ND U	ND U	--	--	--	--	--	--	--	
Pyrene	<b>0.068</b>	ND U	ND U	2300	--	--	2,300	61,000	--	0.21	
<b>Inorganics (soil: mg/kg, water: mg/L)</b>											
Antimony	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	<b>4</b>	<b>3.1</b>	<b>3.7</b>	11.3	13	--	13	61	--	0.05	
Barium	<b>54</b>	<b>68</b>	<b>58</b>	1,500	--	--	5,500	14,000	--	2	
Beryllium	<b>0.54</b>	<b>0.42</b>	<b>0.38</b>	22	--	--	160	410	--	0.004	
Boron	<b>1.7 J</b>	<b>2.3 J</b>	<b>2.1 J</b>	40	--	--	16,000	41,000	--	2	
Cadmium	<b>0.24</b>	<b>0.23</b>	<b>0.2</b>	5.2	--	--	78	200	--	0.005	
Calcium	<b>23,000</b>	<b>3,400</b>	<b>13,000</b>	--	--	--	--	--	--	--	
Chromium	<b>12</b>	<b>11</b>	<b>11</b>	21	--	--	230	690	--	0.1	
Cobalt	<b>6.9</b>	<b>5.2</b>	<b>5.2</b>	20	--	--	4,700	12,000	--	1	
Copper	<b>12</b>	<b>9</b>	<b>8.4</b>	2,900	--	--	2,900	8,200	--	0.65	
Iron	<b>12,000</b>	<b>10,000</b>	<b>11,000</b>	15,000	15,900	--	--	--	--	5	
Lead	<b>24</b>	<b>13</b>	<b>7.5</b>	107	--	--	400	700	--	0.0075	
Magnesium	<b>13,000</b>	<b>1,900</b>	<b>8,500</b>	325,000	--	--	--	730,000	--	--	
Manganese	<b>280</b>	<b>220</b>	<b>210</b>	630	636	--	1,600	4,100	--	0.15	
Mercury	<b>0.038</b>	<b>0.029</b>	<b>0.026</b>	0.89	--	--	10	0.1	--	0.002	
Nickel	<b>24</b>	<b>12</b>	<b>13</b>	100	--	--	1,600	4,100	--	0.1	
Potassium	<b>560</b>	<b>610</b>	<b>550</b>	--	--	--	--	--	--	--	
Selenium	ND U	<b>0.34 J</b>	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	<b>350</b>	<b>540</b>	<b>840</b>	--	--	--	--	--	--	--	
Thallium	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	<b>18</b>	<b>14</b>	<b>18</b>	550	--	--	550	1,400	--	0.049	
Zinc	<b>52</b>	<b>41</b>	<b>38</b>	5,100	--	--	23,000	61,000	--	5	
<b>TCLP Metals (mg/L)</b>											
Barium	<b>0.8</b>	<b>0.22 J</b>	<b>0.48 J</b>	--	--	--	--	--	2	--	
Boron	<b>0.055 J</b>	<b>0.082 J</b>	<b>0.063 J</b>	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	ND U	ND U	ND U	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	<b>0.41 L</b>	<b>0.014 J</b>	<b>0.73 L</b>	--	--	--	--	--	0.15	--	
Nickel	<b>0.026</b>	ND U	<b>0.011 J</b>	--	--	--	--	--	0.1	--	
Zinc	ND U	ND U	ND U	--	--	--	--	--	5	--	
<b>SPLP Metals (mg/L)</b>											
Cadmium	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	<b>0.4 L</b>	NA	<b>0.71 L</b>	--	--	--	--	--	0.15	--	

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-2 (Mississippi River)				Comparison Criteria							
	1314V3-02-B01				MACs			TACO				
BORING	1314V3-02-B01				Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
SAMPLE	1314V3-02-B01 (0-5)	1314V3-02-B01 (5-10)	1314V3-02-G01	1314V3-02-G01D								
MATRIX	Soil	Soil	Water	Water								
DEPTH (feet)	0-5	5-10	--	--								
pH	11.6 #	9.8 #	--	--								
<b>VOCs (soil: mg/kg, water: mg/L)</b>												
Acetone	0.032	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Xylenes, Total	ND U	ND U	0.00067 J	ND U	5.6	--	--	320	5.6	--	10	
<b>SVOCs (soil: mg/kg, water: mg/L)</b>												
2-Methylnaphthalene	ND U	0.014 J	ND U	ND U	--	--	--	--	--	--	--	
Acenaphthene	ND U	0.039	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	0.007 J	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	ND U	0.14	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo(a)anthracene	ND U	0.3	ND U	ND U	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo(a)pyrene	ND U	0.31 †	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo(b)fluoranthene	ND U	0.39	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo(g,h,i)perylene	ND U	0.17 J	ND U	ND U	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	ND U	0.11 J	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Chrysene	ND U	0.39	ND U	ND U	88	--	--	88	17,000	--	0.0015	
Diethyl phthalate	ND U	ND U	0.00048 J	0.00041 J	470	--	--	2,000	2,000	--	5.6	
Fluoranthene	ND U	0.53	ND U	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	0.055	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno(1,2,3-cd)pyrene	ND U	0.1	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	0.02 J	ND U	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	ND U	0.44	ND U	0.00032 J	--	--	--	--	--	--	--	
Pyrene	ND U	0.82	ND U	ND U	2300	--	--	2,300	61,000	--	0.21	
<b>Inorganics (soil: mg/kg, water: mg/L)</b>												
Antimony	ND U	0.33 J	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	2.1	4.2	0.0074	0.0068	11.3	13	--	13	61	--	0.05	
Barium	38	61	0.18	0.17	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.57	0.43	0.00072 J	0.00071 J	22	--	--	160	410	--	0.004	
Boron	25	4.3	0.49	0.46	40	--	--	16,000	41,000	--	2	
Cadmium	0.14	0.31	0.0012	0.0011	5.2	--	--	78	200	--	0.005	
Calcium	110,000	140,000	85	83	--	--	--	--	--	--	--	
Chromium	15	11	0.017	0.012	21	--	--	230	690	--	0.1	
Cobalt	5.1	8.6	0.0044	0.0039	20	--	--	4,700	12,000	--	1	
Copper	6.7	13	0.029	0.028	2,900	--	--	2,900	8,200	--	0.65	
Iron	7,700	14,000	15 W1,2	14 W1,2	15,000	15,900	--	--	--	--	5	
Lead	2.5	31	0.51 W1,2	0.48 W1,2	107	--	--	400	700	--	0.0075	
Magnesium	6,000	3,900	11	11	325,000	--	--	--	730,000	--	--	
Manganese	830 †m	600	0.39 W1	0.35 W1	630	636	--	1,600	4,100	--	0.15	
Mercury	ND U	0.12	0.00012 J	ND U	0.89	--	--	10	0.1	--	0.002	
Nickel	14	19	0.013	0.012	100	--	--	1,600	4,100	--	0.1	
Potassium	380	1,300	9.6	9.1	--	--	--	--	--	--	--	
Silver	ND U	0.078 J	0.00011 J	0.0001 J	4.4	--	--	390	1,000	--	0.05	
Sodium	100	170	21	20	--	--	--	--	--	--	--	
Thallium	1.2	0.8	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	18	18	0.015	0.015	550	--	--	550	1,400	--	0.049	
Zinc	22	35	0.31	0.27	5,100	--	--	23,000	61,000	--	5	
<b>TCLP Metals (mg/L)</b>												
Barium	0.087 J	0.96	NA	NA	--	--	--	--	--	2	--	
Boron	0.12 J	0.08 J	NA	NA	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	NA	NA	--	--	--	--	--	0.005	--	
Chromium	0.099	ND U	NA	NA	--	--	--	--	--	0.1	--	
Cobalt	ND U	0.033	NA	NA	--	--	--	--	--	1	--	
Iron	ND U	2	NA	NA	--	--	--	--	--	5	--	
Manganese	ND U	9.6 L	NA	NA	--	--	--	--	--	0.15	--	
Nickel	ND U	0.047	NA	NA	--	--	--	--	--	0.1	--	
Zinc	ND U	0.11 J	NA	NA	--	--	--	--	--	5	--	
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Manganese	NA	0.45 L	NA	NA	--	--	--	--	--	0.15	--	
Nickel	NA	NA	NA	NA	--	--	--	--	--	0.1	--	

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-2 (Mississippi River)			Comparison Criteria							
	1314V3-02-B02			MACs			TACO				
BORING				Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
SAMPLE	1314V3-02-B02 (0-6)	1314V3-02-B02 (6-12)	1314V3-02-B02 (6-12)D								
MATRIX	Soil	Soil	Soil								
DEPTH (feet)	0-6	6-12	6-12								
pH	9.1 #	9.1 #	8.9								
<b>VOCs (soil: mg/kg, water: mg/L)</b>											
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--		6.3
<b>SVOCs (soil: mg/kg, water: mg/L)</b>											
2-Methylnaphthalene	0.014 J	0.0084 J	ND U	--	--	--	--	--	--	--	--
Acenaphthene	0.0085 J	ND U	ND U	570	--	--	4,700	120,000	--		0.42
Acenaphthylene	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--		2.1
Benzo(a)anthracene	0.021 J	0.0089 J	ND U	0.9	1.8	1.1	1.8	170	--		0.00013
Benzo(a)pyrene	0.034 J	0.0091 J	ND U	0.09	2.1	1.3	2.1	17	--		0.0002
Benzo(b)fluoranthene	0.048	0.021 J	0.013 J	0.9	2.1	1.5	2.1	170	--		0.00018
Benzo(g,h,i)perylene	0.019 J	ND U	ND U	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.022 J	ND U	ND U	9	--	--	9	1,700	--		0.00017
Chrysene	0.026 J	0.012 J	ND U	88	--	--	88	17,000	--		0.0015
Fluoranthene	0.035 J	0.016 J	ND U	3,100	--	--	3,100	82,000	--		0.28
Fluorene	ND U	ND U	ND U	560	--	--	3,100	82,000	--		0.28
Indeno(1,2,3-cd)pyrene	0.027 J	ND U	ND U	0.9	1.6	0.9	1.6	170	--		0.00043
Naphthalene	0.014 J	0.0077 J	ND U	1.8	--	--	170	1.8	--		0.14
Phenanthrene	0.028 J	0.016 J	ND U	--	--	--	--	--	--	--	--
Pyrene	0.032 J	0.014 J	ND U	2300	--	--	2,300	61,000	--		0.21
<b>Inorganics (soil: mg/kg, water: mg/L)</b>											
Antimony	0.4 J	0.35 J	0.44 J	5	--	--	31	82	--		0.006
Arsenic	6.7	4.5	3	11.3	13	--	13	61	--		0.05
Barium	54	64	50	1,500	--	--	5,500	14,000	--		2
Beryllium	0.59	0.55	0.55	22	--	--	160	410	--		0.004
Boron	1.5 J	1.7 J	2 J	40	--	--	16,000	41,000	--		2
Cadmium	0.39	0.27	0.25	5.2	--	--	78	200	--		0.005
Calcium	21,000	23,000	30,000	--	--	--	--	--	--	--	--
Chromium	35	15	17	21	--	--	230	690	--		0.1
Cobalt	7.2	5.4	4.6	20	--	--	4,700	12,000	--		1
Copper	27	14	13	2,900	--	--	2,900	8,200	--		0.65
Iron	21,000	15,000	12,000	15,000	15,900	--	--	--	--	--	5
Lead	22	20	20	107	--	--	400	700	--		0.0075
Magnesium	8,200	11,000	12,000	325,000	--	--	--	730,000	--		--
Manganese	340	230	250	630	636	--	1,600	4,100	--		0.15
Mercury	ND U	ND U	ND U	0.89	--	--	10	0.1	--		0.002
Nickel	61	14	14	100	--	--	1,600	4,100	--		0.1
Potassium	780	740	450	--	--	--	--	--	--	--	--
Silver	ND U	ND U	ND U	4.4	--	--	390	1,000	--		0.05
Sodium	73	140	140	--	--	--	--	--	--	--	--
Thallium	0.68	0.61	0.52 J	2.6	--	--	6.3	160	--		0.002
Vanadium	23	25	24	550	--	--	550	1,400	--		0.049
Zinc	39	34	33	5,100	--	--	23,000	61,000	--		5
<b>TCLP Metals (mg/L)</b>											
Barium	0.76	0.77	0.79	--	--	--	--	--	2		--
Boron	ND U	ND U	ND U	--	--	--	--	--	2		--
Cadmium	0.0045 J	0.0074 L	0.004 J	--	--	--	--	--	0.005		--
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1		--
Cobalt	ND U	0.02 J	ND U	--	--	--	--	--	1		--
Iron	ND U	ND U	ND U	--	--	--	--	--	5		--
Manganese	2.3 L	4.3 L	3.4 L	--	--	--	--	--	0.15		--
Nickel	0.24 L	0.063	0.038	--	--	--	--	--	0.1		--
Zinc	0.044 J	0.38 J	ND U	--	--	--	--	--	5		--
<b>SPLP Metals (mg/L)</b>											
Cadmium	NA	ND U	NA	--	--	--	--	--	0.005		--
Manganese	0.11	0.28 L	0.28 L	--	--	--	--	--	0.15		--
Nickel	0.027	NA	NA	--	--	--	--	--	0.1		--

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-4 (City of Moline, Water Department)			Comparison Criteria							
	1314V3-04-B01			MACs			TACO				
BORING	1314V3-04-B01 (0-6)	1314V3-04-B01 (6-11)	1314V3-04-G01	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
SAMPLE	Soil	Soil	Water								
MATRIX	0-6	6-11	--								
DEPTH (feet)	8	8	--								
pH											
<b>VOCs (soil: mg/kg, water: mg/L)</b>											
2-Butanone (MEK)	0.01	0.014	ND U	--	--	--	--	--	--	--	
Acetone	0.06	0.076	ND U	25	--	--	70,000	100,000	--	6.3	
<b>SVOCs (soil: mg/kg, water: mg/L)</b>											
2-Methylnaphthalene	0.027 J	0.022 J	ND U	--	--	--	--	--	--	--	
3 & 4 Methylphenol	ND U	0.17 J	ND U	--	--	--	--	--	--	--	
Acenaphthene	0.01 J	0.088	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	0.014 J	0.052 J	ND U	--	--	--	--	--	--	--	
Anthracene	0.032 J	0.11	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo(a)anthracene	0.11	0.25	0.00076 W1,2	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo(a)pyrene	0.097 †	0.23 †	0.00086 W1	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo(b)fluoranthene	0.16	0.37	0.0011 W1,2	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo(g,h,i)perylene	0.034 J	0.053 J	0.00036 J	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	0.055	0.12	0.00042 W1	9	--	--	9	1,700	--	0.00017	
Chrysene	0.1	0.23	0.00073	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	ND U	ND U	0.00012 J	0.09	0.42	0.2	0.42	17	--	0.0003	
Fluoranthene	0.2	0.62	0.001	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	0.012 J	0.092	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno(1,2,3-cd)pyrene	0.034 J	0.059	0.00047 W1	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	0.02 J	0.042 J	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.15	0.26	ND U	--	--	--	--	--	--	--	
Pyrene	0.18	0.58	0.001	2300	--	--	2,300	61,000	--	0.21	
<b>Inorganics (soil: mg/kg, water: mg/L)</b>											
Antimony	0.67 J	0.87 J	ND U	5	--	--	31	82	--	0.006	
Arsenic	4.9	8.7	0.011	11.3	13	--	13	61	--	0.05	
Barium	82	120	0.25	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.59	0.96	0.00034 J	22	--	--	160	410	--	0.004	
Boron	12	43 †	1.1	40	--	--	16,000	41,000	--	2	
Cadmium	0.65	0.82	0.00024 J	5.2	--	--	78	200	--	0.005	
Calcium	43,000	22,000	190	--	--	--	--	--	--	--	
Chromium	12	16	0.012	21	--	--	230	690	--	0.1	
Cobalt	5.3	5	0.0023	20	--	--	4,700	12,000	--	1	
Copper	37	39	0.0054	2,900	--	--	2,900	8,200	--	0.65	
Iron	21,000 †m	27,000 †m	28 W1,2	15,000	15,900	--	--	--	--	5	
Lead	96	140 †	0.06 W1	107	--	--	400	700	--	0.0075	
Magnesium	8,300	2,600	34	325,000	--	--	--	730,000	--	--	
Manganese	580	430	2 W1	630	636	--	1,600	4,100	--	0.15	
Mercury	0.44	0.22	ND U	0.89	--	--	10	0.1	--	0.002	
Nickel	12	16	0.01	100	--	--	1,600	4,100	--	0.1	
Potassium	1,000	1,000	15	--	--	--	--	--	--	--	
Selenium	0.36 J	0.93	0.002 J	1.3	--	--	390	1,000	--	0.05	
Silver	0.13 J	0.14 J	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	430	380	100	--	--	--	--	--	--	--	
Thallium	1.1	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	19	18	0.0081	550	--	--	550	1,400	--	0.049	
Zinc	120	730	0.13	5,100	--	--	23,000	61,000	--	5	
<b>TCLP Metals (mg/L)</b>											
Barium	0.84	0.33 J	NA	--	--	--	--	--	2	--	
Boron	0.22 J	0.43 J	NA	--	--	--	--	--	2	--	
Cobalt	0.012 J	0.013 J	NA	--	--	--	--	--	1	--	
Iron	ND U	1.4	NA	--	--	--	--	--	5	--	
Lead	0.017 L	0.013 L	NA	--	--	--	--	--	0.0075	--	
Manganese	3.4 L	4.3 L	NA	--	--	--	--	--	0.15	--	
Nickel	0.016 J	0.012 J	NA	--	--	--	--	--	0.1	--	
Zinc	0.31 J	0.86	NA	--	--	--	--	--	5	--	
<b>SPLP Metals (mg/L)</b>											
Lead	0.036 L	0.052 L	NA	--	--	--	--	--	0.0075	--	
Manganese	0.085	0.16 L	NA	--	--	--	--	--	0.15	--	

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-5 (Industrial Building)				Comparison Criteria					
	1314V3-05-B01	1314V3-05-B02		1314V3-05-B03	MACs			TACO		
BORING	1314V3-05-B01	1314V3-05-B02		1314V3-05-B03	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-05-B01 (0-5)	1314V3-05-B02 (0-6)	1314V3-05-B02 (6-10.6)	1314V3-05-B03 (0-5.9)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	0-6	6-10.6	0-5.9						
pH	8.1	8.2	7	8.2						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	ND U	ND U	ND U	0.025 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	0.061	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.0058 J	ND U	0.12	--	--	--	--	--	--
Anthracene	ND U	0.01 J	ND U	0.25	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.024 J	0.042	ND U	0.96 †	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.024 J	0.041	ND U	0.92 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.036	0.058	ND U	1.3 †	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.016 J	0.032 J	ND UJ	0.29	--	--	--	--	--	--
Benzo(k)fluoranthene	0.015 J	0.018 J	ND U	0.56	9	--	--	9	1,700	--
Carbazole	ND U	ND U	ND U	0.13 J	0.6	--	--	32	6,200	--
Chrysene	0.03 J	0.047	ND U	0.94	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND UJ	0.1 †	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	0.06 J	--	--	--	--	--	--
Fluoranthene	0.053	0.084	ND U	2.2	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	0.065	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.013 J	0.024 J	ND UJ	0.3	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	0.046	1.8	--	--	170	1.8	--
Phenanthrene	0.026 J	0.053	ND U	1.2	--	--	--	--	--	--
Pyrene	0.045	0.086	ND U	2	2300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	0.3 J	0.28 J	ND U	0.37 J	5	--	--	31	82	--
Arsenic	5.6	4.4	9.5	5.9	11.3	13	--	13	61	--
Barium	64	81 J	110	110	1,500	--	--	5,500	14,000	--
Beryllium	0.54	0.46	0.5	0.61	22	--	--	160	410	--
Boron	2 J	4.6 J	2.7 J	4.7	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	ND U	0.46	5.2	--	--	78	200	--
Calcium	30,000	27,000 J	4,300	57,000	--	--	--	--	--	--
Chromium	11	11	14	14	21	--	--	230	690	--
Cobalt	9.9	7.9 J	9.1	8.4	20	--	--	4,700	12,000	--
Copper	11	12	13	34	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	12,000	19,000 †m	16,000 †m	15,000	15,900	--	--	--	--
Lead	13	23 J	9.8	100	107	--	--	400	700	--
Magnesium	14,000	11,000 J	3,200	3,200	325,000	--	--	--	730,000	--
Manganese	640 †m	430 J	160	650 †m	630	636	--	1,600	4,100	--
Mercury	0.013 J	0.065	0.044	0.44	0.89	--	--	10	0.1	--
Nickel	20	15	20	19	100	--	--	1,600	4,100	--
Potassium	550	980 J	910	990	--	--	--	--	--	--
Sodium	83	120	140	97	--	--	--	--	--	--
Vanadium	21	17	26	22	550	--	--	550	1,400	--
Zinc	43	67 J	70	160	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.67	0.45 J	0.67	0.73	--	--	--	--	--	2
Boron	ND U	0.12 J	0.074 J	0.11 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	0.0022 J	--	--	--	--	--	0.005
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	0.013 L	--	--	--	--	--	0.0075
Manganese	3 L	0.99 L	1.4 L	1.2 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.019 J	ND U	--	--	--	--	--	0.1
Zinc	ND U	0.076 J	ND U	0.2 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Lead	NA	NA	NA	0.12 L	--	--	--	--	--	0.0075
Manganese	ND U	0.21 L	0.52 L	0.39 L	--	--	--	--	--	0.15

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-6 (Vacant Land)					Comparison Criteria						
	BORING	1314V3-06-B01	1314V3-06-B02	1314V3-06-B03	1314V3-06-B04	1314V3-06-B05	MACs			TACO		
SAMPLE	1314V3-06-B01 (0-8)	1314V3-06-B02 (0-8)	1314V3-06-B03 (0-4)	1314V3-06-B04 (0-5.2)	1314V3-06-B05 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater
MATRIX	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	0-8	0-4	0-5.2	0-8							
pH	8.9	8.6	8.6	8.3	8							
VOCs (None Detected)												
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	0.032 J	0.022 J	ND U	0.02 J	0.12	--	--	--	--	--	--	--
3 & 4 Methylphenol	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
4-Nitroaniline	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acenaphthene	0.018 J	0.011 J	ND U	0.019 J	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	0.022 J	ND U	0.011 J	ND U	--	--	--	--	--	--	--
Anthracene	0.053	0.06	ND U	0.057	0.0073 J	12,000	--	--	23,000	610,000	--	2.1
Benzo(a)anthracene	0.2	1	0.014 J	0.23	0.052	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo(a)pyrene	0.25	1.3	0.019 J	0.24	0.067	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo(b)fluoranthene	0.37	1.3	0.031 J	0.4	0.12	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo(g,h,i)perylene	0.074	0.28	ND U	0.096	0.049	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.14	0.5	0.014 J	0.13	0.037 J	9	--	--	9	1,700	--	0.00017
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.22	0.96	0.016 J	0.25	0.083	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	0.029 J	0.11	ND U	0.03 J	0.016 J	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Fluoranthene	0.37	1.1	0.033 J	0.51	0.096	3,100	--	--	3,100	82,000	--	0.28
Fluorene	0.018 J	0.0086 J	ND U	0.015 J	0.0075 J	560	--	--	3,100	82,000	--	0.28
Indeno(1,2,3-cd)pyrene	0.084	0.27	ND U	0.099	0.045	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.041	0.026 J	ND U	0.017 J	0.097	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.24	0.24	0.014 J	0.28	0.13	--	--	--	--	--	--	--
Pyrene	0.33	2	0.028 J	0.45	0.072	2300	--	--	2,300	61,000	--	0.21
PCBs (soil: mg/kg, water: mg/L)												
PCB-1254	ND U	NA	NA	0.039	ND U	1	--	--	1	1	--	0.0005
PCB-1260	ND U	NA	NA	0.021	ND U	1	--	--	1	1	--	0.0005
PCBs, total	ND	NA	NA	0.06	ND	--	--	--	--	--	--	--
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	2.8 J	1.3 J	0.25 J	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	14	7.7	4.7	4.3	2.4	11.3	13	--	13	61	--	0.05
Barium	31	62	70	73	75	1,500	--	--	5,500	14,000	--	2
Beryllium	0.27 J	0.58 J	0.48	0.41	0.41	22	--	--	160	410	--	0.004
Boron	7.1 J	11 J	2.2 J	4.4	5.6	40	--	--	16,000	41,000	--	2
Cadmium	0.42 J	0.59	0.21	0.42	0.26	5.2	--	--	78	200	--	0.005
Calcium	4,500	13,000	30,000	43,000	3,800	--	--	--	--	--	--	--
Chromium	94	27	13	16	13	21	--	--	230	690	--	0.1
Cobalt	10	5.8	5.3	7.1	6.1	20	--	--	4,700	12,000	--	1
Copper	66	29	11	15	14	2,900	--	--	2,900	8,200	--	0.65
Iron	95,000	37,000	13,000	13,000	11,000	15,000	15,900	--	--	--	--	5
Lead	110	82	6.9	83	16	107	--	--	400	700	--	0.0075
Magnesium	1,100	2,200	17,000	13,000	1,300	325,000	--	--	--	730,000	--	--
Manganese	850	660	290	390	410	630	636	--	1,600	4,100	--	0.15
Mercury	ND U	0.43	ND U	0.045	0.16	0.89	--	--	10	0.1	--	0.002
Nickel	310	49	16	17	23	100	--	--	1,600	4,100	--	0.1
Potassium	370	600	480	610	1,200	--	--	--	--	--	--	--
Selenium	2.2 J	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	85 J	140 J	120	160	120	--	--	--	--	--	--	--
Thallium	2.8	1.5 J	0.62	ND U	ND U	2.6	--	--	6.3	160	--	0.002
Vanadium	34	23	23	18	15	550	--	--	550	1,400	--	0.049
Zinc	84	160	27	98	66	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)												
Barium	0.3 J	0.4 J	0.98	0.71	0.65	--	--	--	--	--	2	--
Boron	0.07 J	0.077 J	ND U	0.062 J	0.17 J	--	--	--	--	--	2	--
Cadmium	ND U	0.0053 L	0.0029 J	ND U	ND U	--	--	--	--	--	0.005	--
Chromium	0.014 J	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--
Cobalt	0.086	ND U	ND U	ND U	0.034	--	--	--	--	--	1	--
Iron	86 L	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	9.3 L	1.1 L	0.81 L	1.6 L	10 L	--	--	--	--	--	0.15	--
Nickel	1.2 L	0.022 J	0.021 J	ND U	0.03	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Thallium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002	--
Zinc	0.39 J	0.49 J	0.057 J	ND U	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)												
Cadmium	NA	ND U	NA	NA	NA	--	--	--	--	--	0.005	--
Iron	11 L	NA	NA	NA	NA	--	--	--	--	--	5	--
Lead	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.059	0.17 L	0.17 L	0.29 L	0.44 L	--	--	--	--	--	0.15	--
Nickel	0.01 J	NA	NA	NA	NA	--	--	--	--	--	0.1	--
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-6 (Vacant Land)					Comparison Criteria						
	1314V3-06-B06	1314V3-06-B07	1314V3-06-B08	1314V3-06-B08	1314V3-06-B09	MACs			TACO			
BORING	1314V3-06-B06 (0-4)	1314V3-06-B07 (0-4.3)	1314V3-06-B08 (0-5)	1314V3-06-B08 (5-10)	1314V3-06-B09 (0-2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater
SAMPLE	Soil	Soil	Soil	Soil	Soil							
MATRIX												
DEPTH (feet)	0-4	0-4.3	0-5	5-10	0-2							
pH	8.3	8	8.2	8	8							
VOCs (None Detected)												
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	0.36	0.43	0.42	0.17	0.66	--	--	--	--	--	--	--
3 & 4 Methylphenol	0.47	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
4-Nitroaniline	ND U	ND U	ND U	0.27 J	ND U	--	--	--	--	--	--	--
Acenaphthene	0.02 J	0.75	0.22	ND U	0.042 J	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	0.0096 J	0.046	0.033 J	0.015 J	0.03 J	--	--	--	--	--	--	--
Anthracene	0.04	1.1	0.42	0.04	0.074 J	12,000	--	--	23,000	610,000	--	2.1
Benzo(a)anthracene	0.22	3.2 †mr*	0.64	0.12	0.5	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo(a)pyrene	0.34 †	3.5 †mr*	0.81 †	0.13 †	0.73 †	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo(b)fluoranthene	0.58	4.4 †mr*	1.2 †	0.22	1.2 †	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo(g,h,i)perylene	0.15	0.94	0.25	0.047	0.29	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.21	1.8	0.5	0.082	0.4	9	--	--	9	1,700	--	0.00017
Carbazole	ND U	0.71 †	0.18	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.29	2.9	0.66	0.13	0.58	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	0.047	0.36 ††	0.11 J †	ND U	0.069 J	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	0.17 J	0.42	0.37	ND U	0.23 J	--	--	--	--	--	--	--
Fluoranthene	0.35	7	1.5	0.19	0.68	3,100	--	--	3,100	82,000	--	0.28
Fluorene	0.016 J	0.61	0.22	0.0088 J	0.028 J	560	--	--	3,100	82,000	--	0.28
Indeno(1,2,3-cd)pyrene	0.14	1 ††	0.35	0.048	0.34	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.21	0.95	0.36	0.033 J	0.48	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.35	5.9	1.4	0.18	0.85	--	--	--	--	--	--	--
Pyrene	0.41	6.7	1.6	0.25	1.2	2300	--	--	2,300	61,000	--	0.21
PCBs (soil: mg/kg, water: mg/L)												
PCB-1254	NA	NA	NA	NA	NA	1	--	--	1	1	--	0.0005
PCB-1260	NA	NA	NA	NA	NA	1	--	--	1	1	--	0.0005
PCBs, total	NA	NA	NA	NA	NA	--	--	--	--	--	--	--
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	0.42 J	ND U	0.47 J	0.96 J	ND U	5	--	--	31	82	--	0.006
Arsenic	5.6	4	4.2	8.8	5.7	11.3	13	--	13	61	--	0.05
Barium	61	90	52	380	60	1,500	--	--	5,500	14,000	--	2
Beryllium	0.3	0.8 J	0.27	0.66	0.53 J	22	--	--	160	410	--	0.004
Boron	5.6	11 J	3.1	18	6.5 J	40	--	--	16,000	41,000	--	2
Cadmium	1.4	1.2	1.1	12 †	0.44 J	5.2	--	--	78	200	--	0.005
Calcium	27,000	6,200	17,000	12,000	23,000	--	--	--	--	--	--	--
Chromium	42 †	35 †	24 †	40 †	21	21	--	--	230	690	--	0.1
Cobalt	3.9	5.7	4	7.2	3.3	20	--	--	4,700	12,000	--	1
Copper	86	21	59	35	20	2,900	--	--	2,900	8,200	--	0.65
Iron	29,000 †m	78,000 †m	19,000 †m	36,000 †m	17,000 †m	15,000	15,900	--	--	--	--	5
Lead	230 †	46	110 †	570 †r	39	107	--	--	400	700	--	0.0075
Magnesium	3,800	1,600	3,700	4,000	4,000	325,000	--	--	--	730,000	--	--
Manganese	510	440	570	450	440	630	636	--	1,600	4,100	--	0.15
Mercury	0.059	0.2	0.081	0.18	0.046	0.89	--	--	10	0.1	--	0.002
Nickel	68	25	62	38	49	100	--	--	1,600	4,100	--	0.1
Potassium	550	620	320	870	610	--	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05
Silver	0.46	0.36 J	0.25 J	0.2 J	0.81 J	4.4	--	--	390	1,000	--	0.05
Sodium	160	93 J	90	200	140 J	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002
Vanadium	11	24	12	19	45	550	--	--	550	1,400	--	0.049
Zinc	200	250	160	2,100	72	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)												
Barium	0.25 J	0.46 J	0.48 J	0.73	0.26 J	--	--	--	--	--	2	--
Boron	0.14 J	0.05 J	0.052 J	0.13 J	0.061 J	--	--	--	--	--	2	--
Cadmium	0.0026 J	0.016 L	0.017 L	0.1 L	ND U	--	--	--	--	--	0.005	--
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--
Cobalt	ND U	0.016 J	0.016 J	0.026	ND U	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	0.6	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	0.72 L	ND U	--	--	--	--	--	0.0075	--
Manganese	0.24 L	6.2 L	6.5 L	4.7 L	0.92 L	--	--	--	--	--	0.15	--
Nickel	0.017 J	0.21 J L	0.22 L	0.061	0.05	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Thallium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002	--
Zinc	ND U	ND U	ND U	12 L	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)												
Cadmium	NA	ND U	ND U	0.0029 J	NA	--	--	--	--	--	0.005	--
Iron	NA	NA	NA	NA	NA	--	--	--	--	--	5	--
Lead	NA	NA	NA	0.25 L	NA	--	--	--	--	--	0.0075	--
Manganese	0.013 J	0.26 L	0.57 L	0.13	0.17 L	--	--	--	--	--	0.15	--
Nickel	NA	0.015 J	0.079	NA	NA	--	--	--	--	--	0.1	--
Zinc	NA	NA	NA	0.52	NA	--	--	--	--	--	5	--



CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-6 (Vacant Land)					Comparison Criteria						
	1314V3-06-B10			1314V3-06-B11		MACs			TACO			
BORING	1314V3-06-B10 (0-6)	1314V3-06-B10 (6-11)	1314V3-06-G01	1314V3-06-B11 (0-6)	1314V3-06-B11 (6-10.7)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater
SAMPLE MATRIX	Soil	Soil	Water	Soil	Soil							
DEPTH (feet)	0-6	6-11	--	0-6	6-10.7							
pH	8.3	8.4	--	7.8	8.2							
<b>VOCs (None Detected)</b>												
<b>SVOCs (soil: mg/kg, water: mg/L)</b>												
2-Methylnaphthalene	0.021 J	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
3 & 4 Methylphenol	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
4-Nitroaniline	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acenaphthene	0.0072 J	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	0.023 J	0.017 J	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	0.031 J	0.033 J	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo(a)anthracene	0.15	0.14	ND U	ND U	0.014 J	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo(a)pyrene	0.17 †	0.1 †	ND U	ND U	0.015 J	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo(b)fluoranthene	0.23 J	0.15	ND U	ND U	0.019 J	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo(g,h,i)perylene	0.098 J	0.052	ND U	ND U	ND U	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.1 J	0.066	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.19	0.13	ND U	ND U	0.017 J	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	0.03 J	0.022 J	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Fluoranthene	0.37	0.3	ND U	ND U	0.03 J	3,100	--	--	3,100	82,000	--	0.28
Fluorene	0.0098 J	0.011 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno(1,2,3-cd)pyrene	0.093 J	0.052	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.018 J	0.0057 J	ND U	ND U	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.23	0.16	ND U	ND U	0.017 J	--	--	--	--	--	--	--
Pyrene	0.34	0.25	ND U	ND U	0.03 J	2300	--	--	2,300	61,000	--	0.21
<b>PCBs (soil: mg/kg, water: mg/L)</b>												
PCB-1254	NA	NA	NA	NA	NA	1	--	--	1	1	--	0.0005
PCB-1260	NA	NA	NA	NA	NA	1	--	--	1	1	--	0.0005
PCBs, total	NA	NA	NA	NA	NA	--	--	--	--	--	--	--
<b>Inorganics (soil: mg/kg, water: mg/L)</b>												
Antimony	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	2.1	3.8	0.004	2.1	2.4	11.3	13	--	13	61	--	0.05
Barium	24	38	0.18	32	51	1,500	--	--	5,500	14,000	--	2
Beryllium	0.37	0.16 J	ND U	0.26	0.24	22	--	--	160	410	--	0.004
Boron	3.4	0.91 J	0.28	1.1 J	1.3 J	40	--	--	16,000	41,000	--	2
Cadmium	0.17	0.085 J	0.00021 J	0.098 J	0.15	5.2	--	--	78	200	--	0.005
Calcium	5,900	1,700	130	1,600	7,200	--	--	--	--	--	--	--
Chromium	7.7	7.1	0.0024 J	7.5	8.5	21	--	--	230	690	--	0.1
Cobalt	3.7	3.1	0.0033	3.9	4.5	20	--	--	4,700	12,000	--	1
Copper	9.7	6.1	0.015	7.3	8.3	2,900	--	--	2,900	8,200	--	0.65
Iron	8,800	8,500	6.3 W1.2	7,900	8,100	15,000	15,900	--	--	--	--	5
Lead	18	2.3	0.012 W1	3.7	7	107	--	--	400	700	--	0.0075
Magnesium	910	1,200	25	1,100	1,300	325,000	--	--	--	730,000	--	--
Manganese	120	190	1.1 W1	180	410	630	636	--	1,600	4,100	--	0.15
Mercury	0.026	ND U	ND U	0.012 J	0.017 J	0.89	--	--	10	0.1	--	0.002
Nickel	9.3	8.7	0.011	8.8	13	100	--	--	1,600	4,100	--	0.1
Potassium	420	210	4.3	390	360	--	--	--	--	--	--	--
Selenium	ND U	0.28 J	ND U	ND U	0.39 J	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	65	49 J	98	36 J	50 J	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002
Vanadium	13	10	0.0033 J	13	12	550	--	--	550	1,400	--	0.049
Zinc	48	16	0.016 J	21	24	5,100	--	--	23,000	61,000	--	5
<b>TCLP Metals (mg/L)</b>												
Barium	0.29 J	0.53	NA	0.19 J	0.38 J	--	--	--	--	--	2	--
Boron	ND U	ND U	NA	0.057 J	ND U	--	--	--	--	--	2	--
Cadmium	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	0.005	--
Chromium	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	0.1	--
Cobalt	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	1	--
Iron	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	0.76 L	1.8 L	NA	0.095	0.74 L	--	--	--	--	--	0.15	--
Nickel	ND U	0.03	NA	ND U	0.02 J	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	0.05	--
Thallium	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	0.002	--
Zinc	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	5	--
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Iron	NA	NA	NA	NA	NA	--	--	--	--	--	5	--
Lead	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.11	0.091	NA	NA	0.28 L	--	--	--	--	--	0.15	--
Nickel	NA	NA	NA	NA	NA	--	--	--	--	--	0.1	--
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-7 (River Stone Moline Yard)			Comparison Criteria																
	1314V3-07-B01		1314V3-07-B02	MACs			TACO													
BORING	1314V3-07-B01 (0-6)		1314V3-07-G01	1314V3-07-B02 (0-5)			Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater							
SAMPLE	1314V3-07-B01 (0-6)	1314V3-07-G01	1314V3-07-B02 (0-5)																	
MATRIX	Soil	Water	Soil																	
DEPTH (feet)	0-6	--	0-5																	
pH	9.6 #	--	8.2																	
PID (meter units)	0		3.6 - 33.7 **																	
<b>VOCs (soil: mg/kg, water: mg/L)</b>																				
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--							
2-Hexanone	ND U	ND U	12	--	--	--	--	--	--	--	--	--	--							
Acetone	0.048	ND U	ND U	25	--	--	70,000	100,000	--	--	--	6.3	--							
<b>SVOCs (soil: mg/kg, water: mg/L)</b>																				
2-Methylnaphthalene	0.058 J	ND U	4.9	--	--	--	--	--	--	--	--	--	--							
4-Nitroaniline	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--							
Acenaphthene	0.14 J	ND U	0.51	570	--	--	4,700	120,000	--	--	--	0.42	--							
Acenaphthylene	0.34	ND U	ND U	--	--	--	--	--	--	--	--	--	--							
Anthracene	0.63	ND U	ND U	12,000	--	--	23,000	610,000	--	--	--	2.1	--							
Benzo(a)anthracene	2.2 †mr*	0.00039 W1	1.1 †	0.9	1.8	1.1	1.8	170	--	--	--	0.00013	--							
Benzo(a)pyrene	5 †mr*	0.00068 W1	1.1 †	0.09	2.1	1.3	2.1	17	--	--	--	0.0002	--							
Benzo(b)fluoranthene	5.8 †mr*	0.00078 W1	1.5 †	0.9	2.1	1.5	2.1	170	--	--	--	0.00018	--							
Benzo(g,h,i)perylene	3.6	0.00055 J	0.63	--	--	--	--	--	--	--	--	--	--							
Benzo(k)fluoranthene	2.4	0.00029 W1	0.69	9	--	--	9	1,700	--	--	--	0.00017	--							
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	--	--	--							
Chrysene	3.1	0.00046	1.3	88	--	--	88	17,000	--	--	--	0.0015	--							
Dibenz(a,h)anthracene	0.91 †mr*	0.00014 J	0.22 J †*	0.09	0.42	0.2	0.42	17	--	--	--	0.0003	--							
Diethyl phthalate	0.45 J	0.0011 J	ND U	470	--	--	2,000	2,000	--	--	--	5.6	--							
Fluoranthene	4.1	0.0007 J	1.7	3,100	--	--	3,100	82,000	--	--	--	0.28	--							
Fluorene	0.065 J	ND U	ND U	560	--	--	3,100	82,000	--	--	--	0.28	--							
Indeno(1,2,3-cd)pyrene	3.5 †mr*	0.00051 W1	0.52	0.9	1.6	0.9	1.6	170	--	--	--	0.00043	--							
Naphthalene	0.18 J	ND U	1.3	1.8	--	--	170	1.8	--	--	--	0.14	--							
Phenanthrene	0.74	0.0003 J	2.7	--	--	--	--	--	--	--	--	--	--							
Pyrene	5.8	0.00084	2.1	2300	--	--	2,300	61,000	--	--	--	0.21	--							
<b>Inorganics (soil: mg/kg, water: mg/L)</b>																				
Antimony	0.49 J	ND U	ND U	5	--	--	31	82	--	--	--	0.006	--							
Arsenic	4	0.0059	9.5	11.3	13	--	13	61	--	--	--	0.05	--							
Barium	330	0.59	57	1,500	--	--	5,500	14,000	--	--	--	2	--							
Beryllium	0.61	ND U	0.71 J	22	--	--	160	410	--	--	--	0.004	--							
Boron	26	1.5	24	40	--	--	16,000	41,000	--	--	--	2	--							
Cadmium	0.31	ND U	0.3 J	5.2	--	--	78	200	--	--	--	0.005	--							
Calcium	110,000	200	41,000	--	--	--	--	--	--	--	--	--	--							
Chromium	21	0.0022 J	14	21	--	--	230	690	--	--	--	0.1	--							
Cobalt	7	0.0027	5.7	20	--	--	4,700	12,000	--	--	--	1	--							
Copper	21	0.0067	22	2,900	--	--	2,900	8,200	--	--	--	0.65	--							
Iron	14,000	21 W1,2	50,000 †m	15,000	15,900	--	--	--	--	--	--	5	--							
Lead	44	0.011 W1	44	107	--	--	400	700	--	--	--	0.0075	--							
Magnesium	6,300	23	2,500	325,000	--	--	--	730,000	--	--	--	--	--							
Manganese	510	0.55 W1	780 †m	630	636	--	1,600	4,100	--	--	--	0.15	--							
Mercury	0.072	ND U	0.035	0.89	--	--	10	0.1	--	--	--	0.002	--							
Nickel	20	0.0035	12	100	--	--	1,600	4,100	--	--	--	0.1	--							
Potassium	540	21	440	--	--	--	--	--	--	--	--	--	--							
Selenium	0.79	0.0015 J	ND U	1.3	--	--	390	1,000	--	--	--	0.05	--							
Silver	ND U	ND U	ND U	4.4	--	--	390	1,000	--	--	--	0.05	--							
Sodium	160	36	120 J	--	--	--	--	--	--	--	--	--	--							
Vanadium	23	ND U	20	550	--	--	550	1,400	--	--	--	0.049	--							
Zinc	110	0.015 J	88	5,100	--	--	23,000	61,000	--	--	--	5	--							
<b>TCLP Metals (mg/L)</b>																				
Barium	0.81	NA	0.89	--	--	--	--	--	--	--	2	--	--							
Boron	0.53	NA	0.23 J	--	--	--	--	--	--	--	2	--	--							
Cadmium	ND U	NA	ND U	--	--	--	--	--	--	--	0.005	--	--							
Chromium	0.055	NA	ND U	--	--	--	--	--	--	--	0.1	--	--							
Cobalt	ND U	NA	0.01 J	--	--	--	--	--	--	--	1	--	--							
Iron	ND U	NA	ND U	--	--	--	--	--	--	--	5	--	--							
Lead	ND U	NA	ND U	--	--	--	--	--	--	--	0.0075	--	--							
Manganese	ND U	NA	6.1 L	--	--	--	--	--	--	--	0.15	--	--							
Nickel	ND U	NA	0.031	--	--	--	--	--	--	--	0.1	--	--							
Selenium	ND U	NA	ND U	--	--	--	--	--	--	--	0.05	--	--							
Zinc	ND U	NA	ND U	--	--	--	--	--	--	--	5	--	--							
<b>SPLP Metals (mg/L)</b>																				
Cadmium	NA	NA	NA	--	--	--	--	--	--	--	0.005	--	--							
Iron	NA	NA	NA	--	--	--	--	--	--	--	5	--	--							
Lead	NA	NA	NA	--	--	--	--	--	--	--	0.0075	--	--							
Manganese	NA	NA	0.01 J	--	--	--	--	--	--	--	0.15	--	--							

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-7 (River Stone Moline Yard)			Comparison Criteria							
	1314V3-07-B03	1314V3-07-B04		MACs			TACO				
SAMPLE	1314V3-07-B03 (0-5.5)	1314V3-07-B04 (0-5)	1314V3-07-B04 (5-11)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Groundwater	
MATRIX	Soil	Soil	Soil								
DEPTH (feet)	0-5.5	0-5	5-11								
pH	8	8	8.2								
<b>VOCs (soil: mg/kg, water: mg/L)</b>											
2-Butanone (MEK)	0.0051	ND U	ND U	--	--	--	--	--	--	--	
2-Hexanone	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	0.036	ND U	0.032	25	--	--	70,000	100,000	--	6.3	
<b>SVOCs (soil: mg/kg, water: mg/L)</b>											
2-Methylnaphthalene	0.16	0.044 J	ND U	--	--	--	--	--	--	--	
4-Nitroaniline	3 J	ND U	ND U	--	--	--	--	--	--	--	
Acenaphthene	0.061	0.0089 J	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	0.019 J	0.027 J	ND U	--	--	--	--	--	--	--	
Anthracene	0.32	0.066	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo(a)anthracene	4.1 †mr*	0.92 †	ND U	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo(a)pyrene	4.1 †mr*	2.4 †mr*	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo(b)fluoranthene	7.5 †mr*	3.6 †mr*	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo(g,h,i)perylene	1.4	1.9	ND U	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	2.7	1.3	ND U	9	--	--	9	1,700	--	0.00017	
Carbazole	0.48	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	5.3	1.7	ND U	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	0.61 †mr*	0.64 †mr*	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Diethyl phthalate	ND U	ND U	ND U	470	--	--	2,000	2,000	--	5.6	
Fluoranthene	6.3	0.91	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	0.061	0.011 J	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno(1,2,3-cd)pyrene	1.6 †	1.7 †mr*	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	0.078	0.026 J	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	1.8	0.29	ND U	--	--	--	--	--	--	--	
Pyrene	4.7	0.97	ND U	2300	--	--	2,300	61,000	--	0.21	
<b>Inorganics (soil: mg/kg, water: mg/L)</b>											
Antimony	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	28 †mr	6.7	2	11.3	13	--	13	61	--	0.05	
Barium	360	89	36	1,500	--	--	5,500	14,000	--	2	
Beryllium	1.3	1.1	0.69	22	--	--	160	410	--	0.004	
Boron	280 †	60 †	2.8 J	40	--	--	16,000	41,000	--	2	
Cadmium	2.4	1.5	0.079 J	5.2	--	--	78	200	--	0.005	
Calcium	9,500	16,000	2,000	--	--	--	--	--	--	--	
Chromium	44 †	12	7.3	21	--	--	230	690	--	0.1	
Cobalt	14	6.7	8.2	20	--	--	4,700	12,000	--	1	
Copper	77	19	13	2,900	--	--	2,900	8,200	--	0.65	
Iron	190,000 †m	29,000 †m	5,900	15,000	15,900	--	--	--	--	5	
Lead	210 †	53	5.9	107	--	--	400	700	--	0.0075	
Magnesium	1,200	1,600	1,200	325,000	--	--	--	730,000	--	--	
Manganese	1,300 †m	420	240	630	636	--	1,600	4,100	--	0.15	
Mercury	0.12	0.053	0.03	0.89	--	--	10	0.1	--	0.002	
Nickel	25	18	11	100	--	--	1,600	4,100	--	0.1	
Potassium	330	860	830	--	--	--	--	--	--	--	
Selenium	4.9 †	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	0.37 J	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	180 J	300	43 J	--	--	--	--	--	--	--	
Vanadium	36	21	7.3	550	--	--	550	1,400	--	0.049	
Zinc	820	450	42	5,100	--	--	23,000	61,000	--	5	
<b>TCLP Metals (mg/L)</b>											
Barium	1.7	0.56	0.39 J	--	--	--	--	--	2	--	
Boron	0.65	0.19 J	0.15 J	--	--	--	--	--	2	--	
Cadmium	0.016 L	0.0081 L	ND U	--	--	--	--	--	0.005	--	
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1	--	
Cobalt	0.036	ND U	0.048	--	--	--	--	--	1	--	
Iron	9.4 L	ND U	ND U	--	--	--	--	--	5	--	
Lead	0.13 L	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	8.3 L	1.5 L	10 L	--	--	--	--	--	0.15	--	
Nickel	0.063	ND U	0.032	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	3.9	1	ND U	--	--	--	--	--	5	--	
<b>SPLP Metals (mg/L)</b>											
Cadmium	ND U	ND U	NA	--	--	--	--	--	0.005	--	
Iron	ND U	NA	NA	--	--	--	--	--	5	--	
Lead	ND U	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	ND U	0.1	0.82 L	--	--	--	--	--	0.15	--	

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-8 (Commercial Building)		Comparison Criteria					
	1314V3-08-B01	1314V3-08-B01	MACs			TACO		
SAMPLE	1314V3-08-B01 (0-6)	1314V3-08-B01 (6-12)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil						
DEPTH (feet)	0-6	6-12						
pH	7.8	7.7						
<b>VOCs (mg/kg)</b>								
2-Butanone (MEK)	0.022	ND U	--	--	--	--	--	--
Acetone	0.11	0.024	25	--	--	70,000	100,000	--
<b>SVOCs (mg/kg)</b>								
2-Methylnaphthalene	0.016 J	ND U	--	--	--	--	--	--
Acenaphthene	0.013 J	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.049	ND U	--	--	--	--	--	--
Anthracene	0.072	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.24	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.24 †	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.33	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.095 J	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.15	ND U	9	--	--	9	1,700	--
Chrysene	0.26	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.027 J	ND U	0.09	0.42	0.2	0.42	17	--
Diethyl phthalate	ND U	0.29	470	--	--	2,000	2,000	--
Fluoranthene	0.63	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.03 J	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.094 J	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.03 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.38	ND U	--	--	--	--	--	--
Pyrene	0.48	ND U	2300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>								
Antimony	0.9 J	0.53 J	5	--	--	31	82	--
Arsenic	2.8	11	11.3	13	--	13	61	--
Barium	51	37	1,500	--	--	5,500	14,000	--
Beryllium	0.6	0.53	22	--	--	160	410	--
Boron	13	2.3 J	40	--	--	16,000	41,000	--
Cadmium	0.27	0.89	5.2	--	--	78	200	--
Calcium	37,000 J	2,400	--	--	--	--	--	--
Chromium	10	12	21	--	--	230	690	--
Cobalt	4.6 J	6.8	20	--	--	4,700	12,000	--
Copper	15 J	36	2,900	--	--	2,900	8,200	--
Iron	13,000 J	17,000 †m	15,000	15,900	--	--	--	--
Lead	38 J	4	107	--	--	400	700	--
Magnesium	1,400 J	1,200	325,000	--	--	--	730,000	--
Manganese	230	98	630	636	--	1,600	4,100	--
Mercury	0.22	0.028	0.89	--	--	10	0.1	--
Nickel	11 J	20	100	--	--	1,600	4,100	--
Potassium	1,200 J	490	--	--	--	--	--	--
Selenium	ND U	0.33 J	1.3	--	--	390	1,000	--
Sodium	170	69	--	--	--	--	--	--
Thallium	0.66	0.62	2.6	--	--	6.3	160	--
Vanadium	18	55	550	--	--	550	1,400	--
Zinc	100 J	27	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>								
Antimony	0.0083 L	ND U	--	--	--	--	--	0.006
Barium	0.47 J	0.23 J	--	--	--	--	--	2
Boron	0.3 J	0.071 J	--	--	--	--	--	2
Cadmium	ND U	0.01 L	--	--	--	--	--	0.005
Cobalt	0.014 J	0.025	--	--	--	--	--	1
Iron	ND U	ND U	--	--	--	--	--	5
Lead	0.016 L	ND U	--	--	--	--	--	0.0075
Manganese	2.4 L	0.75 L	--	--	--	--	--	0.15
Nickel	0.019 J	0.055	--	--	--	--	--	0.1
Zinc	0.62	0.077 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>								
Antimony	ND U	NA	--	--	--	--	--	0.006
Cadmium	NA	0.0034 J	--	--	--	--	--	0.005
Lead	0.038 L	NA	--	--	--	--	--	0.0075
Manganese	0.12	0.13	--	--	--	--	--	0.15

**PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-11 (Vacant Land)				Comparison Criteria					
	1314V3-11-B01	1314V3-11-B02	1314V3-11-B03		MACs			TACO		
BORING	1314V3-11-B01	1314V3-11-B02	1314V3-11-B03		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-11-B01 (0-1)	1314V3-11-B02 (0-1)	1314V3-11-B03 (0-1)							
MATRIX	Soil	Soil	Soil							
DEPTH (feet)	0-1	0-1	0-1							
pH	8.4	8.4	8.5	8.5						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	ND U	0.013 J	0.02 J	0.016 J	--	--	--	--	--	--
Acenaphthene	ND U	0.016 J	0.031 J	0.025 J	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.012 J	0.011 J	0.01 J	--	--	--	--	--	--
Anthracene	0.011 J	0.045	0.092	0.074	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.055	0.22	0.4	0.35	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.074	0.29 †	0.51 †	0.42 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.11	0.44	0.67	0.59	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.029 J	0.095	0.15	0.12	--	--	--	--	--	--
Benzo(k)fluoranthene	0.039	0.16	0.27 J	0.78 J	9	--	--	9	1,700	--
Chrysene	0.062	0.25	0.38	0.34	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	0.034 J	0.054	0.046	0.09	0.42	0.2	0.42	17	--
Fluoranthene	0.12	0.49	0.79	0.68	3,100	--	--	3,100	82,000	--
Fluorene	ND U	0.013 J	0.032 J	0.023 J	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.039	0.11	0.16	0.14	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	0.0088 J	0.014 J	0.013 J	1.8	--	--	170	1.8	--
Phenanthrene	0.053	0.25	0.4	0.35	--	--	--	--	--	--
Pyrene	0.1	0.57	0.76	0.7	2300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	ND UJ	0.37 J	0.47 J	0.33 J	5	--	--	31	82	--
Arsenic	3.9	4.8	4.3	4.1	11.3	13	--	13	61	--
Barium	81	85	81	87	1,500	--	--	5,500	14,000	--
Beryllium	0.49	0.47	0.56	0.54	22	--	--	160	410	--
Boron	3.3 J	4.1	5.6	5.1	40	--	--	16,000	41,000	--
Cadmium	0.23	0.44	0.44	0.43	5.2	--	--	78	200	--
Calcium	8,900	83,000	19,000	21,000	--	--	--	--	--	--
Chromium	13	17	15	15	21	--	--	230	690	--
Cobalt	4.8	5.2	5	5	20	--	--	4,700	12,000	--
Copper	12	20	19	17	2,900	--	--	2,900	8,200	--
Iron	12,000 J	14,000	15,000	13,000	15,000	15,900	--	--	--	--
Lead	26 J	130 †	73	65	107	--	--	400	700	--
Magnesium	2,800	4,500	4,300	4,000	325,000	--	--	--	730,000	--
Manganese	410 J	580	440	460	630	636	--	1,600	4,100	--
Mercury	0.065	0.13	0.12	0.091	0.89	--	--	10	0.1	--
Nickel	11	14	13	13	100	--	--	1,600	4,100	--
Potassium	570	650	580	600	--	--	--	--	--	--
Selenium	0.28 J	ND U	ND U	0.3 J	1.3	--	--	390	1,000	--
Sodium	290	180	280	270	--	--	--	--	--	--
Thallium	0.66	0.93	0.8	0.84	2.6	--	--	6.3	160	--
Vanadium	20	18	21	20	550	--	--	550	1,400	--
Zinc	45 J	120	85	76	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.78	0.86	0.74	0.74	--	--	--	--	--	2
Boron	0.074 J	0.061 J	0.064 J	0.06 J	--	--	--	--	--	2
Cadmium	0.0021 J	0.0037 J	0.0032 J	0.0029 J	--	--	--	--	--	0.005
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.9 L	0.97 L	0.46 L	0.61 L	--	--	--	--	--	0.15
Zinc	0.048 J	0.25 J	0.069 J	0.094 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Manganese	0.38 L	0.29 L	0.33 L	0.37 L	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-17 (Parking Lot)				Comparison Criteria					
	BORING	1314V3-17-B01	1314V3-17-B02	1314V3-17-B03	MACs			TACO		
SAMPLE	1314V3-17-B01 (0-7)	1314V3-17-B02 (0-7)	1314V3-17-B03 (0-7)	1314V3-17-B03 (0-7)D	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-7	0-7	0-7	0-7						
pH	7.9	7.1	7.6	7.8						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	0.0084 J	0.5	ND U	ND U	--	--	--	--	--	--
Acenaphthene	0.015 J	0.06	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.074	ND U	ND U	--	--	--	--	--	--
Anthracene	0.016 J	0.3	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.059	1.1 †	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.075	1.1 †	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.11	1.7 ††	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.061	0.3	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.039	0.96	ND U	ND U	9	--	--	9	1,700	--
Carbazole	ND U	0.22	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.066	1.5	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.017 J	0.087	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	0.16 J	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.12	2.7	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.0076 J	0.074	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.053	0.31	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.0076 J	0.25	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.085	1.9	ND U	ND U	--	--	--	--	--	--
Pyrene	0.11	2.6	ND U	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--
Arsenic	5.6	15 †mr	5.5	5	11.3	13	--	13	61	--
Barium	74	210	46	40	1,500	--	--	5,500	14,000	--
Beryllium	0.4	1.1	0.38	0.37	22	--	--	160	410	--
Boron	3.4	26	1.8 J	1.8 J	40	--	--	16,000	41,000	--
Cadmium	ND U	1.5	ND U	ND U	5.2	--	--	78	200	--
Calcium	19,000	5,500	7,200	9,000	--	--	--	--	--	--
Chromium	12	16	10	10	21	--	--	230	690	--
Cobalt	8	9.3	6.6	5.8	20	--	--	4,700	12,000	--
Copper	17	120	8.1	8.3	2,900	--	--	2,900	8,200	--
Iron	14,000	32,000 †m	11,000	11,000	15,000	15,900	--	--	--	--
Lead	41	360 †	7.5	7.5	107	--	--	400	700	--
Magnesium	9,600	1,300	4,500	5,600	325,000	--	--	--	730,000	--
Manganese	460	370	290	190	630	636	--	1,600	4,100	--
Mercury	0.047	0.42	0.014 J	0.022	0.89	--	--	10	0.1	--
Nickel	18	21	13	12	100	--	--	1,600	4,100	--
Potassium	780	890	440	450	--	--	--	--	--	--
Selenium	ND U	3 †	ND U	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	240	1,100	570	570	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	18	27	19	18	550	--	--	550	1,400	--
Zinc	64	460	28	29	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.7	0.36 J	0.49 J	0.45 J	--	--	--	--	--	2
Boron	0.079 J	0.3 J	0.06 J	0.051 J	--	--	--	--	--	2
Cadmium	0.0026 J	ND U	ND U	ND U	--	--	--	--	--	0.005
Cobalt	0.018 J	0.019 J	ND U	ND U	--	--	--	--	--	1
Iron	ND U	1.2	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.072 L	ND U	ND U	--	--	--	--	--	0.0075
Manganese	5.4 L	2 L	0.56 L	0.58 L	--	--	--	--	--	0.15
Nickel	0.036	0.014 J	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.062 J	1.3	ND U	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Lead	NA	0.29 L	NA	NA	--	--	--	--	--	0.0075
Manganese	0.055	0.5 L	0.78 L	1.2 J L	--	--	--	--	--	0.15

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-18 (Vacant Land)						Comparison Criteria					
	1314V3-18-B01			1314V3-18-B02			MACs			TACO		
BORING	1314V3-18-B01 (0-6)	1314V3-18-B01 (6-12)	1314V3-18-B01 (12-18)	1314V3-18-B02 (0-7)	1314V3-18-B02 (0-7)D	1314V3-18-B02 (7-13)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil						
MATRIX	0-6	6-12	12-18	0-7	0-7	7-13						
DEPTH (feet)	8.7	8.3	7.9	8	8	7.7						
<b>VOCs (mg/kg)</b>												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--
<b>SVOCs (mg/kg)</b>												
2-Methylnaphthalene	0.059 J	0.019 J	0.0081 J	ND U	ND U	ND U	--	--	--	--	--	--
3 & 4 Methylphenol	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.012 J	0.009 J	ND U	ND U	ND U	0.0087 J	--	--	--	--	--	--
Anthracene	0.019 J	0.016 J	0.012 J	ND U	ND U	0.0067 J	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.047	0.037	0.025 J	0.0059 J	0.0093 J	0.092	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.052	0.034 J	0.026 J	ND U	0.011 J	0.094 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.085	0.061	0.037	0.011 J	0.016 J	0.12	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.025 J	0.018 J	0.012 J	ND UJ	ND U	0.053	--	--	--	--	--	--
Benzo(k)fluoranthene	0.03 J	0.019 J	ND U	ND U	ND U	0.061	9	--	--	9	1,700	--
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.056	0.048	0.032 J	ND U	0.012 J	0.089	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND UJ	ND U	0.013 J	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.088	0.068	0.064	0.012 J	0.02 J	0.15	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	0.006 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.021 J	0.015 J	0.01 J	ND U	ND U	0.047	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.039	0.011 J	0.0068 J	ND U	ND U	0.0063 J	1.8	--	--	170	1.8	--
Phenanthrene	0.089	0.069	0.055	ND U	0.0078 J	0.026 J	--	--	--	--	--	--
Pyrene	0.086	0.074	0.068	0.0096 J	0.017 J	0.15	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>												
Antimony	0.33 J	0.39 J	0.31 J	0.58 J	0.61 J	0.47 J	5	--	--	31	82	--
Arsenic	4.5	6.2	6	4	4.6	5.8	11.3	13	--	13	61	--
Barium	52	52	39	78	71	64	1,500	--	--	5,500	14,000	--
Beryllium	0.5	0.46	0.39	0.59	0.59	0.63	22	--	--	160	410	--
Boron	4.6	6.2	2.8	2.5	2.6	4.8	40	--	--	16,000	41,000	--
Cadmium	0.2	0.2	0.13	ND U	ND U	0.076 J	5.2	--	--	78	200	--
Calcium	80,000	54,000	35,000	14,000	15,000	4,500	--	--	--	--	--	--
Chromium	11	10	9.7	15	15	14	21	--	--	230	690	--
Cobalt	5.4	4.6	5.7	5.8	6.5	6.6	20	--	--	4,700	12,000	--
Copper	15	15	11	12	13	14	2,900	--	--	2,900	8,200	--
Iron	13,000	13,000	13,000	15,000	16,000 †m	15,000	15,000	15,900	--	--	--	--
Lead	19	17	9.5	9.1	10	19	107	--	--	400	700	--
Magnesium	19,000	18,000	18,000	8,100	8,600	1,700	325,000	--	--	--	730,000	--
Manganese	370	320	290	290	310	390	630	636	--	1,600	4,100	--
Mercury	0.039	0.02	0.016 J	0.029	0.025	0.05	0.89	--	--	10	0.1	--
Nickel	13	11	13	14	15	15	100	--	--	1,600	4,100	--
Potassium	930	760	760	780 J	810	900	--	--	--	--	--	--
Selenium	0.34 J	0.37 J	0.62	0.46 J	0.5 J	0.57	1.3	--	--	390	1,000	--
Sodium	340	710	460	100	110	94	--	--	--	--	--	--
Thallium	0.89	0.76	0.86	0.98	0.92	1	2.6	--	--	6.3	160	--
Vanadium	19	18	16	26	26	24	550	--	--	550	1,400	--
Zinc	51	78	33	32	36	56	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>												
Barium	0.76	0.81	1	0.68	0.73	0.48 J	--	--	--	--	--	2
Boron	ND U	ND U	ND U	0.054 J	0.062 J	0.12 J	--	--	--	--	--	2
Cadmium	0.003 J	0.0047 J	0.0038 J	0.0022 J	0.0021 J	0.0022 J	--	--	--	--	--	0.005
Cobalt	ND U	0.032	0.024 J	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.5 L	6.3 L	7.8 L	0.66 L	0.55 L	0.26 L	--	--	--	--	--	0.15
Nickel	0.013 J	0.041	0.032	ND U	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	0.076 J	0.096 J	0.021 J	0.035 J	ND U	0.14 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.36 L	0.72 L	0.23 L	0.13	0.15	0.074	--	--	--	--	--	0.15

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-18 (Vacant Land)					Comparison Criteria					
	1314V3-18-B03		1314V3-18-B04	1314V3-18-B05		MACs			TACO		
SAMPLE	1314V3-18-B03 (0-6)	1314V3-18-B03 (6-12)	1314V3-18-B04 (0-5.3)	1314V3-18-B05 (0-8)	1314V3-18-B05 (8-12)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-5.3	0-8	8-12						
pH	8.1	7.6	8.6	8.1	8						
<b>VOCs (mg/kg)</b>											
2-Butanone (MEK)	ND U	ND U	0.0084	ND U	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	0.045	ND U	ND U	25	--	--	70,000	100,000	--
<b>SVOCs (mg/kg)</b>											
2-Methylnaphthalene	ND U	ND U	0.06 J	ND U	ND U	--	--	--	--	--	--
3 & 4 Methylphenol	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	0.0086 J	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	0.0068 J	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	0.022 J	0.0084 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.0079 J	ND U	0.09	0.059	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.011 J	ND U	0.094 †	0.086	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.025 J	0.016 J	0.15	0.16	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.045	0.065	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.051	0.087	ND U	9	--	--	9	1,700	--
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.017 J	0.011 J	0.11	0.068	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.013 J	0.015 J	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.022 J	ND U	0.2	0.059	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	0.007 J	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	0.038	0.059	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	0.036 J	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.014 J	ND U	0.16	0.026 J	ND U	--	--	--	--	--	--
Pyrene	0.021 J	0.03 J	0.18	0.063	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>											
Antimony	ND U	0.24 J	0.6 J	0.48 J	0.41 J	5	--	--	31	82	--
Arsenic	4.1	3.1	5.3	3.2	4.8	11.3	13	--	13	61	--
Barium	60	73	38	53	29	1,500	--	--	5,500	14,000	--
Beryllium	0.5	0.42	0.4	0.52	0.42	22	--	--	160	410	--
Boron	4.5	2.1 J	4	2.4 J	1.1 J	40	--	--	16,000	41,000	--
Cadmium	0.083 J	ND U	0.13	ND U	ND U	5.2	--	--	78	200	--
Calcium	38,000	7,500	18,000	5,000	13,000	--	--	--	--	--	--
Chromium	12	11	12	13	8.6	21	--	--	230	690	--
Cobalt	5.5	4.4	4.8	5.3	5.4	20	--	--	4,700	12,000	--
Copper	13	8.2	11	13	11	2,900	--	--	2,900	8,200	--
Iron	13,000	11,000	12,000	12,000	12,000	15,000	15,900	--	--	--	--
Lead	10	5.1	17	18	2.8	107	--	--	400	700	--
Magnesium	19,000	4,500	5,200	2,600	6,900	325,000	--	--	--	730,000	--
Manganese	360	280	220	270	300	630	636	--	1,600	4,100	--
Mercury	0.083	0.018	0.058	0.023	ND U	0.89	--	--	10	0.1	--
Nickel	15	9.7	13	13	15	100	--	--	1,600	4,100	--
Potassium	980	680	550	570	320	--	--	--	--	--	--
Selenium	ND U	0.49 J	0.53	0.52	0.55	1.3	--	--	390	1,000	--
Sodium	89	72	370	89	140	--	--	--	--	--	--
Thallium	0.88	0.81	0.71	0.99	0.9	2.6	--	--	6.3	160	--
Vanadium	18	15	18	21	25	550	--	--	550	1,400	--
Zinc	38	33	62	38	24	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>											
Barium	0.86	0.81	0.59	0.57	0.38 J	--	--	--	--	--	2
Boron	ND U	ND U	0.067 J	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0033 J	ND U	ND U	--	--	--	--	--	0.005
Cobalt	ND U	ND U	ND U	ND U	0.013 J	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	0.0079 L	ND U	--	--	--	--	--	0.0075
Manganese	0.36 L	0.81 L	2.4 L	0.44 L	2.8 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.02 J	ND U	0.031	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	0.035 J	0.022 J	0.1 J	0.12 J	0.038 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>											
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	0.042 L	NA	--	--	--	--	--	0.0075
Manganese	0.22 L	0.37 L	0.42 L	0.5 L	0.025	--	--	--	--	--	0.15



PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-18 (Vacant Land)						Comparison Criteria					
	1314V3-18-B06		1314V3-18-B07		1314V3-18-B08		1314V3-18-B09		MACs			TACO
BORING	1314V3-18-B06 (0-6)	1314V3-18-B06 (6-12)	1314V3-18-B06 (12-17)	1314V3-18-B07 (0-8)	1314V3-18-B08 (0-4.4)	1314V3-18-B09 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil						
MATRIX	0-6	6-12	12-17	0-8	0-4.4	0-8						
DEPTH (feet)	8.4	7.9	8	8.5	8.4	7.6						
pH												
<b>VOCs (mg/kg)</b>												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	0.011	ND U	--	--	--	--	--	--
Acetone	ND U	ND U	0.021	ND U	0.051	ND U	25	--	--	70,000	100,000	--
<b>SVOCs (mg/kg)</b>												
2-Methylnaphthalene	0.21	0.23	0.0091 J	0.007 J	0.066 J	0.0085 J	--	--	--	--	--	--
3 & 4 Methylphenol	ND U	ND U	ND U	ND U	0.29	ND U	--	--	--	--	--	--
Acenaphthene	0.041	0.0072 J	ND U	ND U	0.012 J	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.19	0.02 J	ND U	ND U	0.0071 J	ND U	--	--	--	--	--	--
Anthracene	0.46	0.03 J	ND U	ND U	0.041	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.91	0.09	ND U	0.018 J	0.13	0.011 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.72	0.084	ND U	0.02 J	0.13	0.0093 J	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.94	0.14	ND U	0.026 J	0.22	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.25	0.043	ND U	ND U	0.054	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.43	0.057	ND U	ND U	0.072	ND U	9	--	--	9	1,700	--
Carbazole	0.19	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.82	0.12	ND U	0.021 J	0.15	0.011 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.077	0.012 J	ND U	ND U	0.015 J	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	0.17 J	0.076 J	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	1.9	0.18	ND U	0.035 J	0.3	0.021 J	3,100	--	--	3,100	82,000	--
Fluorene	0.099	0.0089 J	ND U	ND U	0.013 J	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.24	0.036 J	ND U	ND U	0.051	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.13	0.17	ND U	ND U	0.033 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	1.6	0.22	0.0072 J	0.031 J	0.22	0.019 J	--	--	--	--	--	--
Pyrene	1.6	0.17	ND U	0.035 J	0.25	0.019 J	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>												
Antimony	0.54 J	0.62 J	0.27 J	0.27 J	0.44 J	ND U	5	--	--	31	82	--
Arsenic	5.6	7.3	2.5	3.5	2.3	220	†mrc	11.3	13	--	13	61
Barium	63	76	49	48	40	60	1,500	--	--	5,500	14,000	--
Beryllium	0.55	0.68	0.41	0.52	0.77	8.9	22	--	--	160	410	--
Boron	7.1	14	2 J	6.4	17	140	†	40	--	--	16,000	41,000
Cadmium	0.42	0.32	ND U	ND U	0.11	20	†	5.2	--	--	78	200
Calcium	28,000	14,000	3,300	110,000	6,700	2,300	--	--	--	--	--	--
Chromium	12	11	10	13	7.3	8.6	21	--	--	230	690	--
Cobalt	4.7	5.6	4.5	4.4	2.3	4.1	20	--	--	4,700	12,000	--
Copper	17	19	8.1	12	7.8	120	2,900	--	--	2,900	8,200	--
Iron	13,000	20,000	†m	10,000	12,000	11,000	20,000	†m	15,000	15,900	--	--
Lead	23	39	6.6	16	9.2	13	107	--	--	400	700	--
Magnesium	14,000	4,300	1,800	30,000	1,000	1,300	325,000	--	--	--	730,000	--
Manganese	280	220	210	320	110	350	630	636	--	1,600	4,100	--
Mercury	0.045	0.19	0.014 J	0.016 J	0.033	0.01 J	0.89	--	--	10	0.1	--
Nickel	12	13	9.3	11	6.6	8.9	100	--	--	1,600	4,100	--
Potassium	850	790	580	1,000	410	340	--	--	--	--	--	--
Selenium	0.45	0.93	0.37 J	ND U	0.58	33	†	1.3	--	--	390	1,000
Sodium	560	270	110	480	340	33 J	--	--	--	--	--	--
Thallium	1	1	0.7	0.95	0.3 J	300	†rc	2.6	--	--	6.3	160
Vanadium	20	19	16	19	9.7	15	550	--	--	550	1,400	--
Zinc	86	120	24	24	71	78	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>												
Barium	0.7	0.83	1.3	0.66	0.63	0.31 J	--	--	--	--	--	2
Boron	ND U	ND U	ND U	0.082 J	0.1 J	0.062 J	--	--	--	--	--	2
Cadmium	0.0042 J	0.0079 L	0.0023 J	ND U	0.0048 J	ND U	--	--	--	--	--	0.005
Cobalt	ND U	0.048	0.032	0.012 J	0.031	ND U	--	--	--	--	--	1
Iron	ND U	0.84	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.015 L	ND U	ND U	0.012 L	ND U	--	--	--	--	--	0.0075
Manganese	1.4 L	9.1 L	14 L	2.9 L	4.7 L	1 L	--	--	--	--	--	0.15
Nickel	0.01 J	0.047	0.041	0.026	0.04	0.015 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	0.16 J	0.35 J	0.062 J	0.041 J	0.34 J	0.12 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>												
Cadmium	NA	ND U	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	0.03 L	NA	NA	0.092 L	NA	--	--	--	--	--	0.0075
Manganese	0.34 L	0.14	0.17 L	ND U	0.65 L	0.83 L	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-21 (BNSF Railroad)				Comparison Criteria					
	1314V3-21-B01		1314V3-21-B02		MACs			TACO		
BORING	1314V3-21-B01		1314V3-21-B02		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-21-B01 (0-5)	1314V3-21-B01 (5-10)	1314V3-21-B02 (0-6)	1314V3-21-B02 (0-6)D						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	0-6	0-6						
pH	7.5	7.8	7.7	7.7						
<b>VOCs (mg/kg)</b>										
2-Butanone (MEK)	ND U	ND U	0.0076	0.0088	--	--	--	--	--	--
Acetone	0.023	ND U	0.05	0.042	25	--	--	70,000	100,000	--
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	0.056 J	ND U	0.19	0.13	--	--	--	--	--	--
Acenaphthene	ND U	ND U	0.012 J	0.026 J	570	--	--	4,700	120,000	--
Acenaphthylene	0.033 J	ND U	0.13	0.13	--	--	--	--	--	--
Anthracene	0.032 J	ND U	0.1	0.15	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.11	ND U	0.28	0.43	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.13 †	ND U	0.36 †	0.5 †	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.2	ND U	0.61	0.8	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.052	ND U	0.089	0.13	--	--	--	--	--	--
Benzo(k)fluoranthene	0.071	ND U	0.2	0.27	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	0.07 J	ND U	ND U	46	--	--	46	4,100	--
Chrysene	0.12	ND U	0.31	0.45	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.022 J	ND U	0.046	0.057	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	0.078 J	0.054 J	--	--	--	--	--	--
Fluoranthene	0.19	ND U	0.46	0.77	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	0.012 J	0.025 J	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.061	ND U	0.11	0.14	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.02 J	ND U	0.11	0.071	1.8	--	--	170	1.8	--
Phenanthrene	0.13	ND U	0.37	0.49	--	--	--	--	--	--
Pyrene	0.18	ND U	0.43	0.75	2,300	--	--	2,300	61,000	--
<b>PCBs (mg/kg)</b>										
PCB-1260	ND U	0.012 J	ND U	ND U	1	--	--	1	1	--
PCBs, total	ND	0.012	ND	ND	--	--	--	--	--	--
<b>Inorganics (mg/kg)</b>										
Antimony	2.2 J	0.32 J	4.2 J	2.9 J	5	--	--	31	82	--
Arsenic	9	4.3	7.9	6.6	11.3	13	--	13	61	--
Barium	140	53	210	190	1,500	--	--	5,500	14,000	--
Beryllium	1.5	0.45	1.4	1.8	22	--	--	160	410	--
Boron	22	2.9	27	41 †	40	--	--	16,000	41,000	--
Cadmium	1.4	0.06 J	1.1	0.98	5.2	--	--	78	200	--
Calcium	6,400	2,200	10,000	9,600	--	--	--	--	--	--
Chromium	14	11	15	14	21	--	--	230	690	--
Cobalt	8.4	5.7	8.1	7.8	20	--	--	4,700	12,000	--
Copper	70	8.7	52	41	2,900	--	--	2,900	8,200	--
Iron	48,000 †m	12,000	40,000 †m	39,000 †m	15,000	15,900	--	--	--	--
Lead	82	5.6	140 †	150 †	107	--	--	400	700	--
Magnesium	1,100	1,500	1,800	1,500	325,000	--	--	--	730,000	--
Manganese	500	480	440	410	630	636	--	1,600	4,100	--
Mercury	0.038	0.015 J	0.056	0.075	0.89	--	--	10	0.1	--
Nickel	24	12	24	23	100	--	--	1,600	4,100	--
Potassium	640	590	1,000	980	--	--	--	--	--	--
Selenium	2.3 J †	0.33 J	2 J †	1.9 J †	1.3	--	--	390	1,000	--
Sodium	470	170	900	790	--	--	--	--	--	--
Thallium	3 J †	1.1	2.8 J †	2.5 J	2.6	--	--	6.3	160	--
Vanadium	26	22	27	25	550	--	--	550	1,400	--
Zinc	330	22	240	250	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Antimony	ND U	ND U	0.0098 L	ND U	--	--	--	--	--	0.006
Barium	0.24 J	0.24 J	0.59	0.56	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0022 J	0.003 J	--	--	--	--	--	0.005
Cobalt	ND U	ND U	0.014 J	0.017 J	--	--	--	--	--	1
Iron	0.31 J	ND U	ND U	0.33 J	--	--	--	--	--	5
Lead	ND U	ND U	0.079 J L	0.099 J L	--	--	--	--	--	0.0075
Manganese	1.4 L	ND U	3.1 L	2.3 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.012 J	0.017 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	0.29 J	ND U	0.21 J	0.43 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Antimony	NA	NA	0.0063 L	NA	--	--	--	--	--	0.006
Lead	NA	NA	0.071 L	0.097 L	--	--	--	--	--	0.0075
Manganese	0.32 L	NA	0.24 L	0.25 L	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-24 (John Deere)					Comparison Criteria					
	1314V3-24-B01	1314V3-24-B02		1314V3-24-B03		MACs			TACO		
SAMPLE	1314V3-24-B01 (0-5.8)	1314V3-24-B02 (0-5)	1314V3-24-B02 (5-10)	1314V3-24-B03 (0-5)	1314V3-24-B03 (5-10)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5.8	0-5	5-10	0-5	5-10						
pH	7.8	8.1	7.9	8.2	8.1						
<b>VOCs (mg/kg)</b>											
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
Xylenes, Total	ND U	ND U	ND U	ND U	ND U	5.6	--	--	320	5.6	--
<b>SVOCs (mg/kg)</b>											
2-Methylnaphthalene	0.029 J	0.014 J	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	0.0094 J	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.012 J	ND U	ND U	0.0072 J	ND U	--	--	--	--	--	--
Anthracene	0.044	0.014 J	ND U	0.014 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.26	0.13	ND U	0.051	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.25 †	0.21 †	ND U	0.058	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.44	0.31	ND U	0.091	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.085	0.21	ND U	0.037 J	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.15	0.094	ND U	0.029 J	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.28	0.16	ND U	0.056	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.03 J	0.047	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.58	0.16	ND U	0.083	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.008 J	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.088	0.17	ND U	0.025 J	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.018 J	0.016 J	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.26	0.089	ND U	0.049	ND U	--	--	--	--	--	--
Pyrene	0.59	0.44	ND U	0.084	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>											
Antimony	1.3 J	18 †	0.35 J	5	0.28 J	5	--	--	31	82	--
Arsenic	4.1	32 †mr	4.2	10	4.3	11.3	13	--	13	61	--
Barium	270	110	54	84	45	1,500	--	--	5,500	14,000	--
Beryllium	2.9	1.5	0.4	1.1	0.38	22	--	--	160	410	--
Boron	110 †	36	2.7 J	19	2 J	40	--	--	16,000	41,000	--
Cadmium	ND U	0.44 J	0.077 J	1.5	0.089 J	5.2	--	--	78	200	--
Calcium	28,000	57,000	2,700	6,000	8,300	--	--	--	--	--	--
Chromium	21	24 †	12	15	9.7	21	--	--	230	690	--
Cobalt	11	19	6.4	8	7.4	20	--	--	4,700	12,000	--
Copper	40	1,000	8.7	220	7.6	2,900	--	--	2,900	8,200	--
Iron	71,000 †m	150,000 †m	12,000	58,000 †m	10,000	15,000	15,900	--	--	--	--
Lead	52	690 †r	7.8	220 †	7.2	107	--	--	400	700	--
Magnesium	1,200	4,100	1,800	1,200	5,000	325,000	--	--	--	730,000	--
Manganese	250	830 †m	280	580	330	630	636	--	1,600	4,100	--
Mercury	0.025	0.13	0.027	0.31	0.022	0.89	--	--	10	0.1	--
Nickel	30	40	14	22	16	100	--	--	1,600	4,100	--
Potassium	2,000	860	810	700	610	--	--	--	--	--	--
Selenium	2.4 †	2.6 †	0.32 J	1.4 J †	ND U	1.3	--	--	390	1,000	--
Silver	ND U	0.65 J	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	1,500	900	180	210 J	130	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	46	51	20	28	16	550	--	--	550	1,400	--
Zinc	170	670	29	700	27	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>											
Antimony	ND U	0.032 L	ND U	ND U	ND U	--	--	--	--	--	0.006
Barium	0.21 J	0.6	0.56	0.29 J	0.6	--	--	--	--	--	2
Boron	0.12 J	0.097 J	0.12 J	0.081 J	0.064 J	--	--	--	--	--	2
Cadmium	ND U	0.0046 J	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.013 J	0.03	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.12 L	ND U	0.011 L	ND U	--	--	--	--	--	0.0075
Manganese	1.6 L	3.9 L	0.4 L	0.16 L	0.41 L	--	--	--	--	--	0.15
Nickel	0.029	0.034	ND U	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	ND U	0.54	ND U	0.35 J	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>											
Antimony	NA	0.019 L	NA	NA	NA	--	--	--	--	--	0.006
Lead	NA	0.043 L	NA	0.088 L	NA	--	--	--	--	--	0.0075
Manganese	ND U	0.034	0.039	0.19 L	0.26 L	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-24 (John Deere)					Comparison Criteria					
	1314V3-24-B04			1314V3-24-B05		MACs			TACO		
BORING	1314V3-24-B04 (0-5)			1314V3-24-B05 (0-5)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-24-B04 (0-5)	1314V3-24-B04 (5-10)	1314V3-24-B04 (5-10)D	1314V3-24-B05 (0-5)	1314V3-24-B05 (5-10)						
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	5-10	5-10	0-5	5-10						
pH	8.3	8.5	8.5	8.3	7.6						
<b>VOCs (mg/kg)</b>											
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
Xylenes, Total	ND U	ND U	ND U	ND U	ND U	5.6	--	--	320	5.6	--
<b>SVOCs (mg/kg)</b>											
2-Methylnaphthalene	0.042 J	ND U	ND U	0.014 J	ND U	--	--	--	--	--	--
Acenaphthene	0.088	ND U	ND U	0.04	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.082	ND U	ND U	0.0089 J	ND U	--	--	--	--	--	--
Anthracene	0.27	ND U	ND U	0.077	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	1.1 †	ND U	ND U	0.27	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	1.1 †	ND U	ND U	0.24 †	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	1.5 †	ND U	ND U	0.34	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.42	ND U	ND U	0.091	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.58	ND U	ND U	0.12	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	1.2	ND U	ND U	0.31	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.11 †	ND U	ND U	0.03 J	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	2.2	ND U	ND U	0.6	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.08	ND U	ND U	0.025 J	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.41	ND U	ND U	0.084	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.058	ND U	ND U	0.011 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	1.4	ND U	ND U	0.53	ND U	--	--	--	--	--	--
Pyrene	2.2	ND U	ND U	0.64	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>											
Antimony	2.4 J	0.32 J	0.28 J	9.5 †	ND U	5	--	--	31	82	--
Arsenic	4.6	6.4	4.2	9	6.2	11.3	13	--	13	61	--
Barium	140	130	65	84	100	1,500	--	--	5,500	14,000	--
Beryllium	0.91 J	0.47	0.43	0.76	0.49	22	--	--	160	410	--
Boron	9.2 J	2.4 J	2.3 J	13	2.3 J	40	--	--	16,000	41,000	--
Cadmium	0.46 J	0.36	0.098 J	0.51	ND U	5.2	--	--	78	200	--
Calcium	8,500	5,400	6,700	9,800	3,100	--	--	--	--	--	--
Chromium	17	12	12	11	15	21	--	--	230	690	--
Cobalt	6.4	13 J	5.9 J	6.3	10	20	--	--	4,700	12,000	--
Copper	220	8.8	8.5	83	13	2,900	--	--	2,900	8,200	--
Iron	27,000 †m	14,000	13,000	29,000 †m	15,000	15,000	15,900	--	--	--	--
Lead	110 †	10	8.8	220 †	10	107	--	--	400	700	--
Magnesium	2,700	4,200	4,800	2,200	2,300	325,000	--	--	--	730,000	--
Manganese	280	1,000 J †m	300 J	290	520	630	636	--	1,600	4,100	--
Mercury	0.39	0.027	0.032	0.12	0.026	0.89	--	--	10	0.1	--
Nickel	20	29	15	17	23	100	--	--	1,600	4,100	--
Potassium	1,100	690	680	690	780	--	--	--	--	--	--
Selenium	ND U	0.39 J	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	720	440	450	390	570	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	20	23	16	20	25	550	--	--	550	1,400	--
Zinc	190	33	33	200	45	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>											
Antimony	0.0091 L	ND U	ND U	0.0075 L	ND U	--	--	--	--	--	0.006
Barium	0.73	0.48 J	0.48 J	0.59	0.6	--	--	--	--	--	2
Boron	0.13 J	0.086 J	0.1 J	0.082 J	0.088 J	--	--	--	--	--	2
Cadmium	0.0021 J	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.014 J	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	0.028 L	ND U	ND U	0.021 L	ND U	--	--	--	--	--	0.0075
Manganese	2.5 L	0.32 L	0.33 L	0.99 L	0.023 J	--	--	--	--	--	0.15
Nickel	0.014 J	ND U	ND U	0.014 J	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	ND U	ND U	ND U	0.21 J	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>											
Antimony	0.011 L	NA	NA	0.017 L	NA	--	--	--	--	--	0.006
Lead	0.11 L	NA	NA	0.15 L	NA	--	--	--	--	--	0.0075
Manganese	0.38 L	0.33 L	0.33 L	0.31 L	NA	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-24 (John Deere)					Comparison Criteria					
	1314V3-24-B06	1314V3-24-B07	1314V3-24-B08	1314V3-24-B09	1314V3-24-B10	MACs			TACO		
SAMPLE	1314V3-24-B06 (0-4)	1314V3-24-B07 (0-5)	1314V3-24-B08 (0-8)	1314V3-24-B09 (0-4)	1314V3-24-B10 (0-5)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-4	0-5	0-8	0-4	0-5						
pH	9	8.9	7.9	7.5	8.5						
<b>VOCs (mg/kg)</b>											
Tetrachloroethene	0.0096	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
Xylenes, Total	ND U	ND U	ND U	ND U	ND U	5.6	--	--	320	5.6	--
<b>SVOCs (mg/kg)</b>											
2-Methylnaphthalene	ND U	0.0078 J	ND U	ND U	0.0096 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	0.21	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	0.021 J	--	--	--	--	--	--
Anthracene	ND U	ND U	0.016 J	0.0074 J	0.72	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.035 J	0.044	0.081	0.028 J	4.3 †mr*	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.044	0.047	0.08	0.042	5 †mr*	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.082	0.066	0.1	0.067	7.2 †mr*	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.024 J	0.028 J	0.039	ND UJ	1.3	--	--	--	--	--	--
Benzo(k)fluoranthene	0.026 J	0.025 J	0.046	0.015 J	2.3	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.26	0.6	--	--	32	6,200	--
Chrysene	0.04	0.052	0.093	0.044	3.9	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.012 J	ND UJ	0.42 †*	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	0.058 J	--	--	--	--	--	--
Fluoranthene	0.081	0.074	0.18	0.043	8.5	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	0.0056 J	ND U	0.18	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.019 J	0.023 J	0.034 J	0.024 J	1.5 †*	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	0.0072 J	ND U	ND U	0.018 J	1.8	--	--	170	1.8	--
Phenanthrene	0.031 J	0.03 J	0.12	0.032 J	2.3	--	--	--	--	--	--
Pyrene	0.067	0.077	0.18	0.084 J	9.2	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>											
Antimony	ND U	2.7	0.3 J	1.5 J	0.54 J	5	--	--	31	82	--
Arsenic	5.8	5.2	14 †mr	6 J	2.3	11.3	13	--	13	61	--
Barium	110	80	84	62 J	33	1,500	--	--	5,500	14,000	--
Beryllium	0.37	0.6	0.43	0.5	0.22	22	--	--	160	410	--
Boron	2.3	5.9	3.2	5.2 J	2.5	40	--	--	16,000	41,000	--
Cadmium	ND U	0.44	ND U	0.16 J	0.098	5.2	--	--	78	200	--
Calcium	13,000	11,000	5,300	47,000 J	86,000	--	--	--	--	--	--
Chromium	11	12	12	11	5.3	21	--	--	230	690	--
Cobalt	12	6.1	4.5	8.4 J	8.6	20	--	--	4,700	12,000	--
Copper	10	28	14	15 J	18	2,900	--	--	2,900	8,200	--
Iron	12,000	18,000 †m	10,000	17,000 J †m	6,200	15,000	15,900	--	--	--	--
Lead	13	120 †	18	65 J	170 †	107	--	--	400	700	--
Magnesium	7,500	2,000	2,000	7,200 J	5,000	325,000	--	--	--	730,000	--
Manganese	860 †m	270	170	450 J	670 †m	630	636	--	1,600	4,100	--
Mercury	0.029	0.37	0.028	0.092	0.0084 J	0.89	--	--	10	0.1	--
Nickel	18	15	13	19 J	18	100	--	--	1,600	4,100	--
Potassium	600	820	860	700 J	300	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	0.41 J	0.23 J	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	820	560	490	2,200	260	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	20	17	12	19	11	550	--	--	550	1,400	--
Zinc	42	150	52	74 J	44	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>											
Antimony	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.006
Barium	0.67	0.49 J	0.3 J	0.42 J	0.37 J	--	--	--	--	--	2
Boron	0.055 J	0.074 J	0.076 J	0.11 J	0.067 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	0.03 L	ND U	ND U	0.044 L	--	--	--	--	--	0.0075
Manganese	0.73 L	1.1 L	0.05	1.9 L	3.3 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	0.011 J	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	0.032 J	0.13 J	ND U	ND U	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>											
Antimony	NA	NA	NA	NA	NA	--	--	--	--	--	0.006
Lead	NA	0.17 L	NA	NA	0.057 L	--	--	--	--	--	0.0075
Manganese	1.5 L	0.45 L	NA	1.2 L	0.13	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-24 (John Deere)				Comparison Criteria					
	1314V3-24-B11		1314V3-24-B12		MACs			TACO		
BORING	1314V3-24-B11		1314V3-24-B12		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-24-B11 (0-6)	1314V3-24-B11 (6-12)	1314V3-24-B12 (0-6)	1314V3-24-B12 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.4	7.7	8	7.5						
<b>VOCs (mg/kg)</b>										
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--
Xylenes, Total	ND U	ND U	ND U	ND U	5.6	--	--	320	5.6	--
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	0.023 J	ND U	0.015 J	ND U	--	--	--	--	--	--
Acenaphthene	0.021 J	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.033 J	ND U	0.021 J	ND U	--	--	--	--	--	--
Anthracene	0.084	ND U	0.04	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.31	ND U	0.091	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.31 †	ND U	0.13 †	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.42 J	ND U	0.2	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.11 J	ND U	0.098	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.22	ND U	0.072	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	0.091 J	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.33	ND U	0.11	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.032 J	ND U	0.024 J	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.63	ND U	0.14	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.023 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.098 J	ND U	0.083	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.023 J	ND U	0.0098 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.41	ND U	0.06	ND U	--	--	--	--	--	--
Pyrene	0.62	ND U	0.19	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	2.9 J	0.68 J	15 †	0.98 J	5	--	--	31	82	--
Arsenic	4.5	3.1	7.2	6.8	11.3	13	--	13	61	--
Barium	110 J	56	56	91	1,500	--	--	5,500	14,000	--
Beryllium	0.8	0.47	0.73	0.65	22	--	--	160	410	--
Boron	18 J	3.5	16	3.2	40	--	--	16,000	41,000	--
Cadmium	0.28	ND U	0.31	0.064 J	5.2	--	--	78	200	--
Calcium	15,000 J	15,000	6,600	13,000	--	--	--	--	--	--
Chromium	10	12	26 †	17	21	--	--	230	690	--
Cobalt	5.1	4.4	3.4	8.1	20	--	--	4,700	12,000	--
Copper	42 J	9.2	30	15	2,900	--	--	2,900	8,200	--
Iron	24,000 J †m	10,000	40,000 †m	17,000 †m	15,000	15,900	--	--	--	--
Lead	110 †	6.4	280 †	7.6	107	--	--	400	700	--
Magnesium	4,600 J	9,400	1,800	9,100	325,000	--	--	--	730,000	--
Manganese	360	210	4,100 †mr	600	630	636	--	1,600	4,100	--
Mercury	0.16 J	ND U	0.091	0.024	0.89	--	--	10	0.1	--
Nickel	15 J	10	7.9	19	100	--	--	1,600	4,100	--
Potassium	930 J	660	390	970	--	--	--	--	--	--
Selenium	1 J	ND U	2.1 †	0.49 J	1.3	--	--	390	1,000	--
Silver	ND U	ND U	0.29	ND U	4.4	--	--	390	1,000	--
Sodium	1,100 J	300	400	180	--	--	--	--	--	--
Thallium	1.3	0.56 J	5.1 †	1.5	2.6	--	--	6.3	160	--
Vanadium	18	18	74	26	550	--	--	550	1,400	--
Zinc	230 J	27	170	34	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Antimony	ND U	ND U	0.21 L	ND U	--	--	--	--	--	0.006
Barium	0.6	0.74	0.84	0.84	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	0.0034 J	ND U	0.0048 J	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	0.015 L	ND U	1.8 L	ND U	--	--	--	--	--	0.0075
Manganese	3 L	0.68 L	2.2 L	0.2 L	--	--	--	--	--	0.15
Nickel	0.012 J	0.01 J	0.015 J	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	0.29 J	ND U	0.39 J	0.031 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Antimony	NA	NA	0.056 L	NA	--	--	--	--	--	0.006
Lead	0.3 L	NA	0.41 L	NA	--	--	--	--	--	0.0075
Manganese	0.58 L	ND U	0.21 L	ND U	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-24 (John Deere)				Comparison Criteria					
	1314V3-24-B13		1314V3-24-B14		MACs			TACO		
BORING	1314V3-24-B13		1314V3-24-B14		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-24-B13 (0-6)	1314V3-24-B13 (6-12)	1314V3-24-B14 (0-6)	1314V3-24-B14 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	7.6	7.2	8.2	7.7						
<b>VOCs (mg/kg)</b>										
Tetrachloroethene	0.0034 J	ND U	ND U	ND U	0.06	--	--	11	28	--
Xylenes, Total	0.0025 J	ND U	ND U	ND U	5.6	--	--	320	5.6	--
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	0.018 J	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.067	ND U	0.033 J	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.075	ND U	0.033 J	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.1	ND U	0.043	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.038 J	ND U	0.025 J	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.036 J	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.079	ND U	0.04	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.12	ND U	0.061	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.033 J	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.055	ND U	0.037 J	ND U	--	--	--	--	--	--
Pyrene	0.12	ND U	0.067	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	9.5 †	0.91 J	7.5 †	0.6 J	5	--	--	31	82	--
Arsenic	8.8	6.9	8.3	6.3	11.3	13	--	13	61	--
Barium	110	95	93	96	1,500	--	--	5,500	14,000	--
Beryllium	0.66	0.66	0.78	0.64	22	--	--	160	410	--
Boron	7.1	2.7 J	14	2.5 J	40	--	--	16,000	41,000	--
Cadmium	0.16	0.21	0.29	0.099 J	5.2	--	--	78	200	--
Calcium	9,600	7,200	11,000	8,500	--	--	--	--	--	--
Chromium	13	16	12	18	21	--	--	230	690	--
Cobalt	12	8.7	6.1	8	20	--	--	4,700	12,000	--
Copper	120	16	90	17	2,900	--	--	2,900	8,200	--
Iron	30,000 †m	17,000 †m	34,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	230 †	9.2	130 †	7.2	107	--	--	400	700	--
Magnesium	2,100	5,100	1,300	6,500	325,000	--	--	--	730,000	--
Manganese	800 †m	830 †m	380	610	630	636	--	1,600	4,100	--
Mercury	0.13	0.026	0.19	0.024	0.89	--	--	10	0.1	--
Nickel	17	21	19	22	100	--	--	1,600	4,100	--
Potassium	710	770	630	940	--	--	--	--	--	--
Selenium	1.4 †	0.67	1.8 †	0.61	1.3	--	--	390	1,000	--
Silver	0.13 J	0.079 J	0.099 J	ND U	4.4	--	--	390	1,000	--
Sodium	910	200	640	340	--	--	--	--	--	--
Thallium	2	1.8	1.6	1.5	2.6	--	--	6.3	160	--
Vanadium	24	29	24	28	550	--	--	550	1,400	--
Zinc	100	35	210	34	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Antimony	0.044 L	ND U	ND U	ND U	--	--	--	--	--	0.006
Barium	0.66	0.87	0.92	0.96	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	0.002 J	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	0.34 L	ND U	0.0086 L	ND U	--	--	--	--	--	0.0075
Manganese	2.2 L	0.1	1.1 L	0.3 L	--	--	--	--	--	0.15
Nickel	0.025	ND U	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Thallium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.002
Zinc	0.23 J	ND U	0.2 J	ND U	--	--	--	--	--	5
<b>SPL Metals (mg/L)</b>										
Antimony	0.012 L	NA	NA	NA	--	--	--	--	--	0.006
Lead	0.081 L	NA	0.064 L	NA	--	--	--	--	--	0.0075
Manganese	0.12	NA	0.11	ND U	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-25 (Sivyer Steel Corp.)					Comparison Criteria					
	1314V3-25-B01		1314V3-25-B02		1314V3-25-B03	MACs			TACO		
BORING	1314V3-25-B01		1314V3-25-B02		1314V3-25-B03	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-25-B01 (0-6)	1314V3-25-B01 (6-12)	1314V3-25-B02 (0-6)	1314V3-25-B02 (6-12)	1314V3-25-B03 (0-8)						
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12	0-8						
pH	7.5	8.2	8.5	8.1	8.1						
<b>VOCs (None Detected)</b>											
<b>SVOCs (mg/kg)</b>											
2-Methylnaphthalene	0.2	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	0.21	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.45	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	0.63	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	2 †mr*	ND U	ND U	ND U	0.013 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	3 †mr*	ND U	ND U	ND U	0.011 J	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	4.8 †mr*	ND U	ND U	ND U	0.012 J	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	1.4	ND U	ND U	ND U	ND UJ	--	--	--	--	--	--
Benzo(k)fluoranthene	1.8	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Carbazole	0.42	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	2.1	ND U	ND U	ND U	0.012 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.47 †mr*	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	0.25	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	3.8	ND U	ND U	ND U	0.025 J	3,100	--	--	3,100	82,000	--
Fluorene	0.28	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	1.6 †*	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.22	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.25	ND U	ND U	ND U	0.024 J	--	--	--	--	--	--
Pyrene	4	ND U	ND U	ND U	0.021 J	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>											
Antimony	5.3 J †	ND U	ND U	ND U	ND UJ	5	--	--	31	82	--
Arsenic	11	2.7	1.8	3.7	2.3	11.3	13	--	13	61	--
Barium	190	110	180	99	120 J	1,500	--	--	5,500	14,000	--
Beryllium	1.9	0.54	0.61	0.54	0.61	22	--	--	160	410	--
Boron	50 †	ND U	ND U	ND U	ND U	40	--	--	16,000	41,000	--
Cadmium	2.2	0.18	0.2	0.13	0.38	5.2	--	--	78	200	--
Calcium	67,000	11,000	9,400	14,000	6,300	--	--	--	--	--	--
Chromium	19	19	17	18	ND U	21	--	--	230	690	--
Cobalt	7.7	8.6	4.9	9.5	5.1	20	--	--	4,700	12,000	--
Copper	63	11	48	11	13 J	2,900	--	--	2,900	8,200	--
Iron	47,000 †m	15,000	12,000	17,000 †m	12,000	15,000	15,900	--	--	--	--
Lead	270 †	9.4	160 †	11	490 J †r	107	--	--	400	700	--
Magnesium	6,400	7,500	2,600	9,300	2,500	325,000	--	--	--	730,000	--
Manganese	840 †m	440	190	250	170	630	636	--	1,600	4,100	--
Mercury	0.19	0.046	0.065	0.028	0.06	0.89	--	--	10	0.1	--
Nickel	25	21	18	18	13	100	--	--	1,600	4,100	--
Potassium	1,600	900	1,000	990	710 J	--	--	--	--	--	--
Selenium	2.4 J †	0.52 J	ND U	0.65	0.35 J	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	ND UJ	4.4	--	--	390	1,000	--
Sodium	460	82	190	150	54 J	--	--	--	--	--	--
Thallium	1.5 J	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	28	18	15	23	13	550	--	--	550	1,400	--
Zinc	850	59	93	59	110 J	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>											
Antimony	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.006
Barium	0.57	0.79	0.63	1	0.57	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	0.0068 L	ND U	ND U	0.0026 J	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	0.011 J	ND U	0.026	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	0.35 J	--	--	--	--	--	5
Lead	0.016 L	ND U	0.028 L	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1 L	4 L	0.13	2.9 L	0.25 L	--	--	--	--	--	0.15
Nickel	0.02 J	0.024 J	ND U	0.017 J	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	0.02 J	ND U	--	--	--	--	--	0.05
Zinc	1.9	ND U	0.045 J	ND U	0.082 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>											
Antimony	NA	NA	NA	NA	NA	--	--	--	--	--	0.006
Cadmium	ND U	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	0.089 L	NA	0.25 L	NA	NA	--	--	--	--	--	0.0075
Manganese	0.21 L	0.46 L	NA	0.29 L	0.16 L	--	--	--	--	--	0.15



## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-25 (Sivyer Steel Corp.)				Comparison Criteria					
	1314V3-25-B04		1314V3-25-B05		MACs			TACO		
BORING	1314V3-25-B04		1314V3-25-B05		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-25-B04 (0-6)	1314V3-25-B04 (6-12)	1314V3-25-B05 (0-6)	1314V3-25-B05 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.1	8.1	7	7						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	ND U	ND U	0.037 J	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	0.09	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	0.016 J	ND U	--	--	--	--	--	--
Anthracene	0.0067 J	ND U	0.14	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.016 J	0.015 J	0.41	0.0097 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.016 J	0.012 J	0.4 †	0.014 J	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.018 J	0.015 J	0.58	0.017 J	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.25	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.27	ND U	9	--	--	9	1,700	--
Carbazole	ND U	ND U	0.17 J	ND U	0.6	--	--	32	6,200	--
Chrysene	0.016 J	0.014 J	0.46	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.08	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	0.053 J	ND U	--	--	--	--	--	--
Fluoranthene	0.033 J	0.03 J	0.86	0.017 J	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	0.074	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.011 J	ND U	0.24	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	0.025 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.031 J	0.026 J	0.69	0.011 J	--	--	--	--	--	--
Pyrene	0.029 J	0.023 J	0.72	0.016 J	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	1.1	ND U	4.1 J	ND U	5	--	--	31	82	--
Arsenic	5.5	6.2	9.6	4.8	11.3	13	--	13	61	--
Barium	88	87	120	71	1,500	--	--	5,500	14,000	--
Beryllium	0.7	0.49	1.5	0.46	22	--	--	160	410	--
Boron	ND U	ND U	14 J	ND U	40	--	--	16,000	41,000	--
Cadmium	0.49	0.29	1.2	0.19	5.2	--	--	78	200	--
Calcium	5,300	7,800	5,100	3,100	--	--	--	--	--	--
Chromium	ND U	15	26 †	16	21	--	--	230	690	--
Cobalt	7.1	11	9	8.1	20	--	--	4,700	12,000	--
Copper	15	13	100	11	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	14,000	61,000 †m	14,000	15,000	15,900	--	--	--	--
Lead	63	11	710 †rc	10	107	--	--	400	700	--
Magnesium	1,600	4,700	960	2,000	325,000	--	--	--	730,000	--
Manganese	340	570	680 †m	440	630	636	--	1,600	4,100	--
Mercury	0.14	0.026	0.05	0.021	0.89	--	--	10	0.1	--
Nickel	17	25	30	19	100	--	--	1,600	4,100	--
Potassium	530	750	610	730	--	--	--	--	--	--
Selenium	0.77	0.59 J	3.5 †	0.41 J	1.3	--	--	390	1,000	--
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	85	87	84 J	39 J	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	20	24	33	21	550	--	--	550	1,400	--
Zinc	120	45	380	49	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Antimony	ND U	ND U	0.013 L	ND U	--	--	--	--	--	0.006
Barium	0.47 J	0.62	0.25 J	0.19 J	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	ND U	0.0022 J	0.0023 J	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	0.34 J	ND U	0.43	0.28 J	--	--	--	--	--	5
Lead	ND U	ND U	0.12 L	ND U	--	--	--	--	--	0.0075
Manganese	0.1	0.34 L	0.4 L	0.011 J	--	--	--	--	--	0.15
Nickel	ND U	0.022 J	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	0.021 J	--	--	--	--	--	0.05
Zinc	0.085 J	0.034 J	0.3 J	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Antimony	NA	NA	0.0083 L	NA	--	--	--	--	--	0.006
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	0.34 L	NA	--	--	--	--	--	0.0075
Manganese	NA	0.24 L	0.55 L	NA	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-25 (Sivyer Steel Corp.)				Comparison Criteria					
	1314V3-25-B06		1314V3-25-B07		MACs			TACO		
BORING	1314V3-25-B06		1314V3-25-B07		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-25-B06 (0-6)	1314V3-25-B06 (6-12)	1314V3-25-B07 (0-6)	1314V3-25-B07 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	7.4	8.3	7.4	8						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	0.1	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	0.01 J	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.017 J	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	0.22	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	2.2 †mr*	ND U	0.022 J	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	2.1 †	ND U	0.027 J	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	3.3 †mr*	ND U	0.029 J	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.97	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.99	ND U	0.013 J	ND U	9	--	--	9	1,700	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	2.8	ND U	0.02 J	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.4 †	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	0.076 J	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	5.6	ND U	0.026 J	ND U	3,100	--	--	3,100	82,000	--
Fluorene	0.012 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	1.3 †	ND U	0.014 J	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.062	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	1.1	ND U	0.0075 J	ND U	--	--	--	--	--	--
Pyrene	4.9	ND U	0.026 J	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	18 †	ND U	ND U	ND U	5	--	--	31	82	--
Arsenic	19 †mr	2.3	4.2	3.6	11.3	13	--	13	61	--
Barium	130	100	71	110	1,500	--	--	5,500	14,000	--
Beryllium	1.9	0.54	0.47	0.47	22	--	--	160	410	--
Boron	61 †	ND U	ND U	ND U	40	--	--	16,000	41,000	--
Cadmium	3.7	0.32	0.18	0.12	5.2	--	--	78	200	--
Calcium	15,000	9,100	4,100	8,000	--	--	--	--	--	--
Chromium	19	19	ND U	ND U	21	--	--	230	690	--
Cobalt	9.6	12	7	7.5	20	--	--	4,700	12,000	--
Copper	100	12	10	9.6	2,900	--	--	2,900	8,200	--
Iron	61,000 †m	16,000 †m	13,000	14,000	15,000	15,900	--	--	--	--
Lead	1,900 †rc	12	13	9.3	107	--	--	400	700	--
Magnesium	1,800	5,900	2,300	5,000	325,000	--	--	--	730,000	--
Manganese	870 †m	610	400	250	630	636	--	1,600	4,100	--
Mercury	0.25	0.044	0.055	0.027	0.89	--	--	10	0.1	--
Nickel	26	27	17	14	100	--	--	1,600	4,100	--
Potassium	800	1,100	680	690	--	--	--	--	--	--
Selenium	4.3 †	0.46 J	0.58 J	0.43 J	1.3	--	--	390	1,000	--
Silver	0.35 J	ND U	ND U	ND U	4.4	--	--	390	1,000	--
Sodium	280 J	390	53 J	72	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	34	20	18	18	550	--	--	550	1,400	--
Zinc	980	66	45	43	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Antimony	0.066 L	ND U	ND U	ND U	--	--	--	--	--	0.006
Barium	0.39 J	0.68	0.63	0.42 J	--	--	--	--	--	2
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2
Cadmium	0.0066 L	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Iron	0.2 J	ND U	0.24 J	ND U	--	--	--	--	--	5
Lead	0.96 L	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.1 L	0.15	0.17 L	0.67 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05
Zinc	0.83	0.023 J	0.033 J	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Antimony	0.018 L	NA	NA	NA	--	--	--	--	--	0.006
Cadmium	ND U	NA	NA	NA	--	--	--	--	--	0.005
Lead	0.22 L	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.066	0.4 L	0.16 L	0.15	--	--	--	--	--	0.15

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-26 (Commercial Building)		Comparison Criteria						
	1314V3-26-B01	1314V3-26-B02	MACs			TACO			
BORING	1314V3-26-B01	1314V3-26-B02							
SAMPLE	1314V3-26-B01 (0-8)	1314V3-26-B02 (0-8)							
MATRIX	Soil	Soil							
DEPTH (feet)	0-8	0-8							
pH	8.2	8.2	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
<b>VOCs (None Detected)</b>									
<b>SVOCs (mg/kg)</b>									
2-Methylnaphthalene	0.013 J	ND U	--	--	--	--	--	--	--
Anthracene	0.007 J	ND U	12,000	--	--	23,000	610,000	--	--
Benzo(a)anthracene	0.04 J	ND U	0.9	1.8	1.1	1.8	170	--	--
Benzo(a)pyrene	0.05	ND U	0.09	2.1	1.3	2.1	17	--	--
Benzo(b)fluoranthene	0.091	ND U	0.9	2.1	1.5	2.1	170	--	--
Benzo(g,h,i)perylene	0.02 J	ND U	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.029 J	ND U	9	--	--	9	1,700	--	--
Chrysene	0.045	ND U	88	--	--	88	17,000	--	--
Dibenz(a,h)anthracene	0.012 J	ND U	0.09	0.42	0.2	0.42	17	--	--
Fluoranthene	0.071	ND U	3,100	--	--	3,100	82,000	--	--
Indeno(1,2,3-cd)pyrene	0.027 J	ND U	0.9	1.6	0.9	1.6	170	--	--
Naphthalene	0.0078 J	ND U	1.8	--	--	170	1.8	--	--
Phenanthrene	0.043	ND U	--	--	--	--	--	--	--
Pyrene	0.069	ND U	2,300	--	--	2,300	61,000	--	--
<b>Inorganics (mg/kg)</b>									
Antimony	0.43 J	0.25 J	5	--	--	31	82	--	--
Arsenic	2.7	2.5	11.3	13	--	13	61	--	--
Barium	110	79	1,500	--	--	5,500	14,000	--	--
Beryllium	0.56	0.49	22	--	--	160	410	--	--
Boron	7.2	2.8 J	40	--	--	16,000	41,000	--	--
Cadmium	0.31	0.22	5.2	--	--	78	200	--	--
Calcium	7,700	6,000	--	--	--	--	--	--	--
Chromium	11	13	21	--	--	230	690	--	--
Cobalt	4.4	5.3	20	--	--	4,700	12,000	--	--
Copper	19	9.3	2,900	--	--	2,900	8,200	--	--
Iron	14,000	14,000	15,000	15,900	--	--	--	--	--
Lead	21	7	107	--	--	400	700	--	--
Magnesium	2,100	3,200	325,000	--	--	--	730,000	--	--
Manganese	290	360	630	636	--	1,600	4,100	--	--
Mercury	0.058	0.013 J	0.89	--	--	10	0.1	--	--
Nickel	12	12	100	--	--	1,600	4,100	--	--
Potassium	1,100	880	--	--	--	--	--	--	--
Selenium	0.33 J	ND U	1.3	--	--	390	1,000	--	--
Sodium	230	150	--	--	--	--	--	--	--
Thallium	0.7	0.8	2.6	--	--	6.3	160	--	--
Vanadium	14	17	550	--	--	550	1400	--	--
Zinc	58	32	5,100	--	--	23,000	61,000	--	--
<b>TCLP Metals (mg/L)</b>									
Barium	0.51	0.45 J	--	--	--	--	--	--	2
Boron	0.099 J	0.084 J	--	--	--	--	--	--	2
Cadmium	0.0023 J	ND U	--	--	--	--	--	--	0.005
Iron	ND U	0.26 J	--	--	--	--	--	--	5
Manganese	1.1 L	0.031	--	--	--	--	--	--	0.15
Selenium	ND U	0.02 J	--	--	--	--	--	--	0.05
<b>SPLP Metals (mg/L)</b>									
Manganese	0.05	NA	--	--	--	--	--	--	0.15

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-32 (Commercial Buildings)				Comparison Criteria					
	1314V3-32-B01		1314V3-32-B02		MACs			TACO		
BORING					Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-32-B01 (0-6)	1314V3-32-B01 (6-12)	1314V3-32-B02 (0-6)	1314V3-32-B02 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.9	7.9	7.7	7.6						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Chrysene	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	<b>0.0087</b> J	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Phenanthrene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	<b>0.0093</b> J	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	<b>0.35</b> J	<b>0.36</b> J	<b>0.37</b> J	<b>0.29</b> J	5	--	--	31	82	--
Arsenic	<b>4.2</b>	<b>6.1</b>	<b>5.2</b>	<b>4.7</b>	11.3	13	--	13	61	--
Barium	<b>56</b>	<b>66</b>	<b>89</b>	<b>61</b>	1,500	--	--	5,500	14,000	--
Beryllium	<b>0.56</b>	<b>0.57</b>	<b>0.63</b>	<b>0.49</b>	22	--	--	160	410	--
Boron	<b>3.7</b>	<b>3.4</b>	<b>3.9</b>	<b>3.6</b>	40	--	--	16,000	41,000	--
Cadmium	<b>0.041</b> J	ND U	ND U	ND U	5.2	--	--	78	200	--
Calcium	<b>4,500</b>	<b>13,000</b>	<b>5,200</b>	<b>20,000</b>	--	--	--	--	--	--
Chromium	<b>12</b>	<b>15</b>	<b>16</b>	<b>13</b>	21	--	--	230	690	--
Cobalt	<b>5.8</b>	<b>6.4</b>	<b>6.3</b>	<b>4.9</b>	20	--	--	4,700	12,000	--
Copper	<b>11</b>	<b>13</b>	<b>13</b>	<b>10</b>	2,900	--	--	2,900	8,200	--
Iron	<b>13,000</b>	<b>15,000</b>	<b>16,000</b> †m	<b>13,000</b>	15,000	15,900	--	--	--	--
Lead	<b>12</b>	<b>7.1</b>	<b>11</b>	<b>5.7</b>	107	--	--	400	700	--
Magnesium	<b>2,300</b>	<b>9,000</b>	<b>2,900</b>	<b>13,000</b>	325,000	--	--	--	730,000	--
Manganese	<b>330</b>	<b>360</b>	<b>390</b>	<b>330</b>	630	636	--	1,600	4,100	--
Mercury	<b>0.029</b>	<b>0.02</b>	<b>0.016</b> J	<b>0.015</b> J	0.89	--	--	10	0.1	--
Nickel	<b>12</b>	<b>14</b>	<b>15</b>	<b>12</b>	100	--	--	1,600	4,100	--
Potassium	<b>900</b>	<b>800</b>	<b>970</b>	<b>810</b>	--	--	--	--	--	--
Selenium	<b>0.52</b>	<b>0.47</b> J	<b>0.63</b>	<b>0.31</b> J	1.3	--	--	390	1,000	--
Sodium	<b>180</b>	<b>440</b>	<b>730</b>	<b>820</b>	--	--	--	--	--	--
Thallium	<b>0.82</b>	<b>1.1</b>	<b>1.1</b>	<b>0.93</b>	2.6	--	--	6.3	160	--
Vanadium	<b>22</b>	<b>25</b>	<b>25</b>	<b>22</b>	550	--	--	550	1400	--
Zinc	<b>64</b>	<b>32</b>	<b>39</b>	<b>28</b>	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	<b>0.66</b>	<b>0.79</b>	<b>0.52</b>	<b>0.82</b>	--	--	--	--	--	2
Boron	ND U	<b>0.072</b> J	<b>0.08</b> J	<b>0.081</b> J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	<b>0.6</b> L	<b>0.17</b> L	<b>0.19</b> L	<b>0.22</b> L	--	--	--	--	--	0.15
Nickel	<b>0.013</b> J	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	<b>0.033</b> J	ND U	ND U	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Manganese	<b>0.66</b> L	<b>0.67</b> L	<b>0.52</b> L	<b>0.59</b> J L	--	--	--	--	--	0.15

**PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-32 (Commercial Buildings)				Comparison Criteria					
	1314V3-32-B03		1314V3-32-B04		MACs			TACO		
BORING	1314V3-32-B03		1314V3-32-B04		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-32-B03 (0-6)	1314V3-32-B03 (6-12)	1314V3-32-B04 (0-6)	1314V3-32-B04 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.8	8.4	8.8	8.1						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.012 J	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.018 J	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.015 J	ND U	0.0087 J	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.018 J	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.011 J	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Chrysene	0.018 J	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	0.023 J	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.012 J	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Phenanthrene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	0.023 J	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	0.32 J	0.34 J	0.38 J	0.35 J	5	--	--	31	82	--
Arsenic	2.9	4.2	6.1	6.4	11.3	13	--	13	61	--
Barium	39	45	78	87	1,500	--	--	5,500	14,000	--
Beryllium	0.38	0.4	0.59	0.71	22	--	--	160	410	--
Boron	2.2 J	2.5	2.6	4.2	40	--	--	16,000	41,000	--
Cadmium	ND U	0.09 J	ND U	ND U	5.2	--	--	78	200	--
Calcium	9,500	14,000	16,000	12,000	--	--	--	--	--	--
Chromium	8.7	9.4	16	19	21	--	--	230	690	--
Cobalt	3.8	5.5	6.2	7.8	20	--	--	4,700	12,000	--
Copper	7.5	8.9	13	14	2,900	--	--	2,900	8,200	--
Iron	8,600	11,000	17,000 †m	19,000 †m	15,000	15,900	--	--	--	--
Lead	7.7	5.2	9.4	8.4	107	--	--	400	700	--
Magnesium	3,800	8,800	2,200	8,700	325,000	--	--	--	730,000	--
Manganese	230	360	470	470	630	636	--	1,600	4,100	--
Mercury	0.026	0.019	0.11	0.021	0.89	--	--	10	0.1	--
Nickel	9.1	13	17	20	100	--	--	1,600	4,100	--
Potassium	480	530	970	1,100	--	--	--	--	--	--
Selenium	0.3 J	0.3 J	0.49 J	0.54 J	1.3	--	--	390	1,000	--
Sodium	390	300	900	510	--	--	--	--	--	--
Thallium	0.65	0.8	1.2	1.5	2.6	--	--	6.3	160	--
Vanadium	15	19	26	32	550	--	--	550	1400	--
Zinc	23	23	35	40	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.73	0.55	0.79	0.7	--	--	--	--	--	2
Boron	0.054 J	0.06 J	ND U	0.06 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.4 L	0.27 L	0.2 L	0.15	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	0.053 J	ND U	ND U	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Manganese	0.31 L	0.37 L	0.5 L	NA	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-32 (Commercial Buildings)				Comparison Criteria					
	1314V3-32-B05	1314V3-32-B06	1314V3-32-B07	1314V3-32-B08	MACs			TACO		
SAMPLE	1314V3-32-B05 (0-3)	1314V3-32-B06 (0-3)	1314V3-32-B07 (0-3)	1314V3-32-B08 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-3	0-3	0-3	0-3						
pH	8.8	8.8	8.5	8.9						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
Anthracene	0.013 J	0.046	0.0089 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.096	0.2	0.046	0.028 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.099 †	0.2 †	0.046	0.032 J	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.14	0.3	0.063	0.047	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.064	0.12	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.033 J	0.11	0.028 J	0.018 J	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	0.49	ND U	46	--	--	46	4,100	--
Chrysene	0.1	0.25	0.041 J	0.028 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	0.038 J	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	0.16	0.51	0.086	0.052	3,100	--	--	3,100	82,000	--
Fluorene	ND U	0.01 J	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.052	0.11	0.021 J	0.017 J	0.9	1.6	0.9	1.6	170	--
Phenanthrene	0.062	0.23	0.04 J	0.035 J	--	--	--	--	--	--
Pyrene	0.16	0.4	0.072	0.045	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	0.5 J	0.51 J	0.41 J	0.29 J	5	--	--	31	82	--
Arsenic	3.8	3.9	4.3	3.1	11.3	13	--	13	61	--
Barium	67	99	86	83	1,500	--	--	5,500	14,000	--
Beryllium	0.57	0.62	0.56	0.54	22	--	--	160	410	--
Boron	4.9	6.2	3 J	3.3	40	--	--	16,000	41,000	--
Cadmium	0.12	0.22	0.24	0.18	5.2	--	--	78	200	--
Calcium	42,000	11,000	3,700	7,400	--	--	--	--	--	--
Chromium	13	53 †	15	13	21	--	--	230	690	--
Cobalt	4.2	6.9	5.7	4.3	20	--	--	4,700	12,000	--
Copper	19	14	16	11	2,900	--	--	2,900	8,200	--
Iron	13,000	15,000	14,000	12,000	15,000	15,900	--	--	--	--
Lead	29	190 †	32	18	107	--	--	400	700	--
Magnesium	14,000	2,700	1,800	2,100	325,000	--	--	--	730,000	--
Manganese	320	400	410	250	630	636	--	1,600	4,100	--
Mercury	0.19	0.27 J	0.067	2 †	0.89	--	--	10	0.1	--
Nickel	11	13	12	11	100	--	--	1,600	4,100	--
Potassium	1,200	1,000	910	830	--	--	--	--	--	--
Selenium	0.27 J	0.63	ND U	ND U	1.3	--	--	390	1,000	--
Sodium	530	840	430	520	--	--	--	--	--	--
Thallium	0.98	1.2	0.9	0.67	2.6	--	--	6.3	160	--
Vanadium	19	20	22	19	550	--	--	550	1400	--
Zinc	64	76	46	42	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.67	0.73	0.28 J	0.43 J	--	--	--	--	--	2
Boron	0.062 J	0.081 J	0.078 J	0.071 J	--	--	--	--	--	2
Cadmium	ND U	0.0025 J	ND U	ND U	--	--	--	--	--	0.005
Chromium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	0.39 J	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.67 L	1 L	ND U	0.14	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	0.036 J	0.065 J	ND U	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Manganese	ND U	0.53 L	NA	NA	--	--	--	--	--	0.15

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-33 (Parking Lot)				Comparison Criteria					
	1314V3-33-B01		1314V3-33-B02		MACs			TACO		
BORING	1314V3-33-B01 (0-6)		1314V3-33-B02 (0-5)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil						
MATRIX	0-6	6-12	0-5	5-9.4						
DEPTH (feet)	7.8	8.4	8.6	8.6						
pH										
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	0.013 J	ND U	0.012 J	0.0066 J	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	0.032 J	ND U	0.041	0.021 J	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.13	ND U	0.15	0.072	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.16 †	ND U	0.17 †	0.084	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.23	ND U	0.26	0.12	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.051	ND U	0.056	0.024 J	--	--	--	--	--	--
Benzo(k)fluoranthene	0.069	ND U	0.098	0.049	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.12	ND U	0.14	0.07	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.023 J	ND U	0.021 J	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.27	ND U	0.32 J	0.14	3,100	--	--	3,100	82,000	--
Fluorene	0.012 J	ND U	0.014 J	0.0074 J	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.056	ND U	0.061	0.032 J	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	0.0065 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.16	ND U	0.19	0.082	--	--	--	--	--	--
Pyrene	0.28	ND U	0.31 J	0.13	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	0.25 J	ND U	ND UJ	0.26 J	5	--	--	31	82	--
Arsenic	4.6	5.6	2	2.7	11.3	13	--	13	61	--
Barium	70	64	26 J	26	1,500	--	--	5,500	14,000	--
Beryllium	0.52	0.5	0.2 J	0.24	22	--	--	160	410	--
Boron	1.5 J	1.7 J	1.1 J	1.3 J	40	--	--	16,000	41,000	--
Cadmium	0.15	0.17	0.14	0.057 J	5.2	--	--	78	200	--
Calcium	5,700	13,000	7,800 J	10,000	--	--	--	--	--	--
Chromium	13	14	6.3	5.8	21	--	--	230	690	--
Cobalt	7.4	8.2	4.1	4.3	20	--	--	4,700	12,000	--
Copper	12	13	6.4	6.3	2,900	--	--	2,900	8,200	--
Iron	14,000	14,000	7,000	11,000	15,000	15,900	--	--	--	--
Lead	15	9.4	20 J	6.8	107	--	--	400	700	--
Magnesium	2,000	8,100	2,900	5,700	325,000	--	--	--	730,000	--
Manganese	330	330	210 J	270	630	636	--	1,600	4,100	--
Mercury	0.025	0.033	0.011 J	0.012 J	0.89	--	--	10	0.1	--
Nickel	16	22	9.9 J	9.8	100	--	--	1,600	4,100	--
Potassium	680	650	260	260	--	--	--	--	--	--
Selenium	0.29 J	ND U	0.3 J	0.33 J	1.3	--	--	390	1,000	--
Sodium	460	170	85	140	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	19	22	10	10	550	--	--	550	1400	--
Zinc	98	43	25	34	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.59	0.65	0.39 J	0.51	--	--	--	--	--	2
Boron	0.065 J	0.068 J	ND U	0.055 J	--	--	--	--	--	2
Cadmium	ND U	ND U	0.0026 J	0.0023 J	--	--	--	--	--	0.005
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	2.2 L	0.26 L	1.1 L	1.7 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.014 J	0.021 J	--	--	--	--	--	0.1
Zinc	0.13 J	ND U	0.072 J	0.049 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.16 L	0.11	0.32 L	0.24 L	--	--	--	--	--	0.15

## CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-33 (Parking Lot)				Comparison Criteria					
BORING	1314V3-33-B03		1314V3-33-B04		MACs			TACO		
SAMPLE	1314V3-33-B03 (0-6)	1314V3-33-B03 (6-12)	1314V3-33-B04 (0-6)	1314V3-33-B04 (6-12)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.1	7.7	8.8	8.4						
PID (meter units)	0		0-2.9 **							
VOCs (None Detected)										
SVOCs (mg/kg)										
2-Methylnaphthalene	0.5	ND U	0.0097 J	ND U	--	--	--	--	--	--
Acenaphthene	2.5	ND U	0.014 J	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	0.03 J	ND U	0.0098 J	ND U	--	--	--	--	--	--
Anthracene	6.4	0.011 J	0.033 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	14 †mr*	0.023 J	0.2	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	13 †mr*	0.024 J	0.2 †	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	18 †mr*	0.034 J	0.36	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	6.5	ND U	0.12	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	6.8	0.016 J	0.12	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	0.13 J	ND U	0.12 J	ND U	46	--	--	46	4,100	--
Carbazole	3.8 †	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	15	0.021 J	0.22	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	2.1 †mr*	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	1.7	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	34	0.052	0.36	ND U	3,100	--	--	3,100	82,000	--
Fluorene	2.9	ND U	0.011 J	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	6.8 †mr*	0.013 J	0.11	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	1	ND U	0.011 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	26	0.043	0.18	ND U	--	--	--	--	--	--
Pyrene	28	0.051	0.62	ND U	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)										
Antimony	ND U	ND U	0.41 J	0.37 J	5	--	--	31	82	--
Arsenic	5.4	5.5	6.8	6.3	11.3	13	--	13	61	--
Barium	70	70	140	64	1,500	--	--	5,500	14,000	--
Beryllium	0.5	0.44	0.5	0.45	22	--	--	160	410	--
Boron	1.5 J	1.6 J	2.5 J	1.7 J	40	--	--	16,000	41,000	--
Cadmium	0.22	0.18	2.9	0.16	5.2	--	--	78	200	--
Calcium	5,800	13,000	16,000	19,000	--	--	--	--	--	--
Chromium	13	12	13	12	21	--	--	230	690	--
Cobalt	9.6	9.2	7.5	7	20	--	--	4,700	12,000	--
Copper	11	12	18	11	2,900	--	--	2,900	8,200	--
Iron	13,000	13,000	14,000	13,000	15,000	15,900	--	--	--	--
Lead	30	10	890 †rc	10	107	--	--	400	700	--
Magnesium	2,800	8,400	7,600	12,000	325,000	--	--	--	730,000	--
Manganese	470	490	380	370	630	636	--	1,600	4,100	--
Mercury	0.046	0.026	0.11	0.026	0.89	--	--	10	0.1	--
Nickel	20	20	17	19	100	--	--	1,600	4,100	--
Potassium	620	540	640	610	--	--	--	--	--	--
Selenium	0.44 J	0.49 J	0.42 J	ND U	1.3	--	--	390	1,000	--
Sodium	350	250	630	260	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	20	20	19	20	550	--	--	550	1400	--
Zinc	50	39	420	37	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)										
Barium	0.45 J	0.64	0.87	0.62	--	--	--	--	--	2
Boron	0.073 J	0.067 J	0.071 J	0.054 J	--	--	--	--	--	2
Cadmium	ND U	0.002 J	0.038 L	0.0027 J	--	--	--	--	--	0.005
Cobalt	ND U	ND U	ND U	0.019 J	--	--	--	--	--	1
Lead	ND U	ND U	1.7 L	ND U	--	--	--	--	--	0.0075
Manganese	0.11	0.13	0.48 L	2.9 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.017 J	0.046	--	--	--	--	--	0.1
Zinc	ND U	ND U	3.1	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)										
Cadmium	NA	NA	0.0039 J	NA	--	--	--	--	--	0.005
Lead	NA	NA	3.7 L	NA	--	--	--	--	--	0.0075
Manganese	NA	NA	0.49 L	0.64 L	--	--	--	--	--	0.15



**PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-33 (Parking Lot)				Comparison Criteria					
	1314V3-33-B05		1314V3-33-B06		MACs			TACO		
BORING	1314V3-33-B05		1314V3-33-B06		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-33-B05 (0-6)	1314V3-33-B05 (6-12)	1314V3-33-B06 (0-6)	1314V3-33-B06 (6-12)						
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	0-6	6-12						
pH	8.4	7.9	8	7.6						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.0094 J	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.0089 J	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	ND U	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	0.015 J	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.008 J	ND U	ND U	ND U	--	--	--	--	--	--
Pyrene	0.017 J	ND U	ND U	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	0.34 J	ND U	0.28 J	0.26 J	5	--	--	31	82	--
Arsenic	5.9	5.1	5.5	4.9	11.3	13	--	13	61	--
Barium	83	69	65	47	1,500	--	--	5,500	14,000	--
Beryllium	0.53	0.49	0.54	0.44	22	--	--	160	410	--
Boron	2 J	2 J	1.4 J	2 J	40	--	--	16,000	41,000	--
Cadmium	0.21	0.13	0.13	0.1 J	5.2	--	--	78	200	--
Calcium	14,000	15,000	29,000	20,000	--	--	--	--	--	--
Chromium	13	14	13	12	21	--	--	230	690	--
Cobalt	9.8	7	9	6.5	20	--	--	4,700	12,000	--
Copper	12	12	14	12	2,900	--	--	2,900	8,200	--
Iron	14,000	14,000	14,000	12,000	15,000	15,900	--	--	--	--
Lead	24	8.7	15	8.3	107	--	--	400	700	--
Magnesium	2,600	10,000	2,100	12,000	325,000	--	--	--	730,000	--
Manganese	590	340	390	240	630	636	--	1,600	4,100	--
Mercury	0.041	0.027	0.039	0.021	0.89	--	--	10	0.1	--
Nickel	19	18	20	15	100	--	--	1,600	4,100	--
Potassium	700	690	710	520	--	--	--	--	--	--
Selenium	ND U	0.4 J	ND U	ND U	1.3	--	--	390	1,000	--
Sodium	290	170	95	96	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	21	21	21	20	550	--	--	550	1400	--
Zinc	62	45	47	34	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.68	0.52	0.7	0.65	--	--	--	--	--	2
Boron	0.064 J	0.071 J	0.056 J	0.084 J	--	--	--	--	--	2
Cadmium	0.0024 J	ND U	ND U	0.002 J	--	--	--	--	--	0.005
Cobalt	ND U	ND U	ND U	ND U	--	--	--	--	--	1
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	4.1 L	0.21 L	0.43 L	0.26 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Zinc	0.045 J	ND U	ND U	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>										
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.35 L	0.25 L	0.22 L	0.076	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-33 (Parking Lot)		Comparison Criteria						
	1314V3-33-B07		MACs			TACO			
BORING	1314V3-33-B07 (0-8)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
SAMPLE	1314V3-33-B07 (0-8)	1314V3-33-B07 (0-8)D							
MATRIX	Soil	Soil							
DEPTH (feet)	0-8	0-8							
pH	8.4	8.6							
<b>VOCs (None Detected)</b>									
<b>SVOCs (mg/kg)</b>									
2-Methylnaphthalene	ND U	ND U	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	570	--	--	4,700	120,000	--	
Acenaphthylene	ND U	ND U	--	--	--	--	--	--	
Anthracene	ND U	0.0071 J	12,000	--	--	23,000	610,000	--	
Benzo(a)anthracene	0.04	0.048	0.9	1.8	1.1	1.8	170	--	
Benzo(a)pyrene	0.057	0.065	0.09	2.1	1.3	2.1	17	--	
Benzo(b)fluoranthene	0.093	0.1	0.9	2.1	1.5	2.1	170	--	
Benzo(g,h,i)perylene	0.022 J	0.022 J	--	--	--	--	--	--	
Benzo(k)fluoranthene	0.036 J	0.036 J	9	--	--	9	1,700	--	
Bis(2-ethylhexyl) phthalate	ND U	ND U	46	--	--	46	4,100	--	
Carbazole	ND U	ND U	0.6	--	--	32	6,200	--	
Chrysene	0.049	0.048	88	--	--	88	17,000	--	
Dibenz(a,h)anthracene	ND U	ND U	0.09	0.42	0.2	0.42	17	--	
Dibenzofuran	ND U	ND U	--	--	--	--	--	--	
Fluoranthene	0.085	0.085	3,100	--	--	3,100	82,000	--	
Fluorene	ND U	ND U	560	--	--	3,100	82,000	--	
Indeno(1,2,3-cd)pyrene	0.029 J	0.031 J	0.9	1.6	0.9	1.6	170	--	
Naphthalene	ND U	ND U	1.8	--	--	170	1.8	--	
Phenanthrene	0.037	0.034 J	--	--	--	--	--	--	
Pyrene	0.085	0.097	2,300	--	--	2,300	61,000	--	
<b>Inorganics (mg/kg)</b>									
Antimony	ND U	0.37 J	5	--	--	31	82	--	
Arsenic	6.4	5.7	11.3	13	--	13	61	--	
Barium	53	53	1,500	--	--	5,500	14,000	--	
Beryllium	0.41	0.42	22	--	--	160	410	--	
Boron	1.5 J	1.9 J	40	--	--	16,000	41,000	--	
Cadmium	0.2	0.2	5.2	--	--	78	200	--	
Calcium	6,200 J	13,000 J	--	--	--	--	--	--	
Chromium	11	11	21	--	--	230	690	--	
Cobalt	6.4	6.6	20	--	--	4,700	12,000	--	
Copper	11	11	2,900	--	--	2,900	8,200	--	
Iron	12,000	12,000	15,000	15,900	--	--	--	--	
Lead	47	49	107	--	--	400	700	--	
Magnesium	3,400	3,400	325,000	--	--	--	730,000	--	
Manganese	320	360	630	636	--	1,600	4,100	--	
Mercury	0.041	0.031	0.89	--	--	10	0.1	--	
Nickel	15	16	100	--	--	1,600	4,100	--	
Potassium	620	700	--	--	--	--	--	--	
Selenium	ND U	0.34 J	1.3	--	--	390	1,000	--	
Sodium	120	130	--	--	--	--	--	--	
Thallium	ND U	ND U	2.6	--	--	6.3	160	--	
Vanadium	18	18	550	--	--	550	1400	--	
Zinc	43	47	5,100	--	--	23,000	61,000	--	
<b>TCLP Metals (mg/L)</b>									
Barium	0.6	0.68	--	--	--	--	--	2	
Boron	0.07 J	0.058 J	--	--	--	--	--	2	
Cadmium	0.0023 J	0.0023 J	--	--	--	--	--	0.005	
Cobalt	ND U	ND U	--	--	--	--	--	1	
Lead	0.02 L	0.034 L	--	--	--	--	--	0.0075	
Manganese	0.2 L	0.32 L	--	--	--	--	--	0.15	
Nickel	ND U	ND U	--	--	--	--	--	0.1	
Zinc	0.051 J	0.036 J	--	--	--	--	--	5	
<b>SPLP Metals (mg/L)</b>									
Cadmium	NA	NA	--	--	--	--	--	0.005	
Lead	0.13 L	0.077 L	--	--	--	--	--	0.0075	
Manganese	0.31 L	0.26 L	--	--	--	--	--	0.15	

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-56 (Commercial Building)				Comparison Criteria					
	1314V3-56-B01	1314V3-56-B02		1314V3-56-B03	MACs			TACO		
SAMPLE	1314V3-56-B01 (0-3)	1314V3-56-B02 (0-3)	1314V3-56-B02 (0-3)D	1314V3-56-B03 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-3	0-3	0-3	0-3						
pH	8	8.9	9.1 #	8.2						
<b>VOCs (None Detected)</b>										
<b>SVOCs (mg/kg)</b>										
Anthracene	ND U	ND U	0.013 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	0.01 J	0.048	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	0.013 J	0.052	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	0.026 J	0.071	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.02 J	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.027 J	ND U	9	--	--	9	1,700	--
Chrysene	ND U	0.012 J	0.047	ND U	88	--	--	88	17,000	--
Fluoranthene	ND U	0.017 J	0.11	ND U	3,100	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	0.013 J	0.026 J	ND U	0.9	1.6	0.9	1.6	170	--
Phenanthrene	ND U	ND U	0.056	ND U	--	--	--	--	--	--
Pyrene	ND U	0.016 J	0.082	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>										
Antimony	0.23 J	0.28 J	0.25 J	ND U	5	--	--	31	82	--
Arsenic	4.4	5.1	4.6	4.1	11.3	13	--	13	61	--
Barium	69	63	62	80	1,500	--	--	5,500	14,000	--
Beryllium	0.47	0.49	0.48	0.47	22	--	--	160	410	--
Boron	1.7 J	2.7	2.6 J	2.7	40	--	--	16,000	41,000	--
Cadmium	0.17	0.17	0.11	0.12	5.2	--	--	78	200	--
Calcium	2,300	5,200	5,200	3,300	--	--	--	--	--	--
Chromium	12	13	12	12	21	--	--	230	690	--
Cobalt	5.4	6.1	5.3	5.6	20	--	--	4,700	12,000	--
Copper	9.3	10	9.7	8.6	2,900	--	--	2,900	8,200	--
Iron	13,000	14,000	13,000	12,000	15,000	15,900	--	--	--	--
Lead	7.6	9.4	9.8	6.7	107	--	--	400	700	--
Magnesium	1,500	2,600	2,700	1,600	325,000	--	--	--	730,000	--
Manganese	620	400	370	500	630	636	--	1,600	4,100	--
Mercury	0.018	0.024	0.019	0.014 J	0.89	--	--	10	0.1	--
Nickel	16	12	12	11	100	--	--	1,600	4,100	--
Potassium	680	850	800	800	--	--	--	--	--	--
Selenium	0.26 J	ND U	ND U	ND U	1.3	--	--	390	1,000	--
Sodium	670	1,300	1,300	260	--	--	--	--	--	--
Thallium	1.1	0.82	0.72	0.95	2.6	--	--	6.3	160	--
Vanadium	21	21	20	19	550	--	--	550	1400	--
Zinc	25	28	26	24	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>										
Barium	0.46 J	0.58	0.56	0.43 J	--	--	--	--	--	2
Boron	0.051 J	0.079 J	0.075 J	0.092 J	--	--	--	--	--	2
Iron	0.34 J	ND U	0.31 J	0.21 J	--	--	--	--	--	5
Manganese	0.21 L	0.29 L	0.25 L	1.7 L	--	--	--	--	--	0.15
<b>SPLP Metals (mg/L)</b>										
Manganese	0.76 L	0.81 L	0.59 L	0.34 L	--	--	--	--	--	0.15

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-57 (Old Chamber Building)			Comparison Criteria					
	1314V3-57-B01	1314V3-57-B02	1314V3-57-B03	MACs			TACO		
BORING				Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-57-B01 (0-3)	1314V3-57-B02 (0-3)	1314V3-57-B03 (0-5)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-3	0-3	0-5						
pH	8.1	8.4	8.7						
<b>VOCs (None Detected)</b>									
<b>SVOCs (mg/kg)</b>									
2-Methylnaphthalene	ND U	0.0098 J	ND U	--	--	--	--	--	--
Acenaphthene	0.012 J	0.016 J	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	0.006 J	ND U	--	--	--	--	--	--
Anthracene	0.036 J	0.034 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.18	0.12	0.012 J	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.22 †	0.16 †	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.33	0.17	0.021 J	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.078	0.074	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.12	0.075	ND U	9	--	--	9	1,700	--
Chrysene	0.21	0.11	0.013 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.034 J	0.026 J	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	0.43	0.22	0.021 J	3,100	--	--	3,100	82,000	--
Fluorene	0.014 J	0.014 J	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.094	0.082	0.014 J	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	0.023 J	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.26	0.14	0.0085 J	--	--	--	--	--	--
Pyrene	0.36	0.2	0.02 J	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>									
Antimony	0.43 J	0.45 J	0.32 J	5	--	--	31	82	--
Arsenic	3.7	3.9	5 J	11.3	13	--	13	61	--
Barium	91	68	73 J	1,500	--	--	5,500	14,000	--
Beryllium	0.6	0.43	0.45	22	--	--	160	410	--
Boron	5.1	2.6	3 J	40	--	--	16,000	41,000	--
Cadmium	0.5	0.25	0.22 J	5.2	--	--	78	200	--
Calcium	7,200	14,000	11,000 J	--	--	--	--	--	--
Chromium	14	11	12	21	--	--	230	690	--
Cobalt	5.5	5.3	5.3 J	20	--	--	4,700	12,000	--
Copper	15	12	17 J	2,900	--	--	2,900	8,200	--
Iron	14,000	12,000	12,000	15,000	15,900	--	--	--	--
Lead	66	52	14 J	107	--	--	400	700	--
Magnesium	2,600	7,800	6,600 J	325,000	--	--	--	730,000	--
Manganese	330	370	360 J	630	636	--	1,600	4,100	--
Mercury	0.19	0.11	0.029	0.89	--	--	10	0.1	--
Nickel	13	12	11 J	100	--	--	1,600	4,100	--
Potassium	910	750	870 J	--	--	--	--	--	--
Selenium	0.38 J	ND U	ND UJ	1.3	--	--	390	1,000	--
Sodium	210	420	780	--	--	--	--	--	--
Thallium	0.78	0.72	0.77	2.6	--	--	6.3	160	--
Vanadium	17	18	20	550	--	--	550	1400	--
Zinc	85	47	33 J	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>									
Barium	0.48 J	0.75	0.59	--	--	--	--	--	2
Boron	0.11 J	0.064 J	0.072 J	--	--	--	--	--	2
Cadmium	ND U	0.002 J	0.0022 J	--	--	--	--	--	0.005
Lead	ND U	0.011 L	ND U	--	--	--	--	--	0.0075
Manganese	0.14	0.6 L	1.9 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.03	--	--	--	--	--	0.1
<b>SPLP Metals (mg/L)</b>									
Lead	NA	0.15 L	NA	--	--	--	--	--	0.0075
Manganese	NA	0.21 L	0.7 L	--	--	--	--	--	0.15

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01

CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-59 (Residence)		Comparison Criteria					
	1314V3-59-B01		MACs			TACO		
BORING	1314V3-59-B01		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-59-B01 (0-5)	1314V3-59-B01 (5-10)						
MATRIX	Soil	Soil						
DEPTH (feet)	0-5	5-10						
pH	8.2	8.3						
<b>VOCs (None Detected)</b>								
<b>SVOCs (mg/kg)</b>								
Benzo(a)anthracene	0.0075 J	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.009 J	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.016 J	ND U	0.9	2.1	1.5	2.1	170	--
Fluoranthene	0.014 J	ND U	3,100	--	--	3,100	82,000	--
Phenanthrene	0.0056 J	ND U	--	--	--	--	--	--
Pyrene	0.011 J	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>								
Antimony	0.28 J	0.27 J	5	--	--	31	82	--
Arsenic	6.5	4.4	11.3	13	--	13	61	--
Barium	67	48	1,500	--	--	5,500	14,000	--
Beryllium	0.49	0.45	22	--	--	160	410	--
Boron	2.7	3.1	40	--	--	16,000	41,000	--
Cadmium	0.29	0.22	5.2	--	--	78	200	--
Calcium	7,400	23,000	--	--	--	--	--	--
Chromium	14	12	21	--	--	230	690	--
Cobalt	6.8	5.6	20	--	--	4,700	12,000	--
Copper	11	9.4	2,900	--	--	2,900	8,200	--
Iron	14,000	14,000	15,000	15,900	--	--	--	--
Lead	14	6.1	107	--	--	400	700	--
Magnesium	4,900	15,000	325,000	--	--	--	730,000	--
Manganese	460	190	630	636	--	1,600	4,100	--
Mercury	0.013 J	ND U	0.89	--	--	10	0.1	--
Nickel	15	9.8	100	--	--	1,600	4,100	--
Potassium	780	870	--	--	--	--	--	--
Selenium	ND U	1.6 †	1.3	--	--	390	1,000	--
Sodium	180	180	--	--	--	--	--	--
Thallium	1	0.57	2.6	--	--	6.3	160	--
Vanadium	27	21	550	--	--	550	1400	--
Zinc	36	26	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>								
Barium	0.56	0.57	--	--	--	--	--	2
Boron	0.063 J	0.075 J	--	--	--	--	--	2
Cobalt	ND U	0.035	--	--	--	--	--	1
Manganese	0.35 L	2.4 L	--	--	--	--	--	0.15
Nickel	ND U	0.034	--	--	--	--	--	0.1
Selenium	ND U	0.025 J	--	--	--	--	--	0.05
<b>SPLP Metals (mg/L)</b>								
Manganese	0.23 L	0.18 L	--	--	--	--	--	0.15

PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN

SITE	ISGS #1314V3-60 (Vacant Lot)					Comparison Criteria					
	1314V3-60-B01		1314V3-60-B02	1314V3-60-B03		MACs			TACO		
BORING	1314V3-60-B01 (0-6)	1314V3-60-B01 (6-11)	1314V3-60-B02 (0-7)	1314V3-60-B03 (0-4)	1314V3-60-B03 (4-9)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE											
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-11	0-7	0-4	4-9						
pH	7.6	7.6	8	7.5	7.5						
<b>VOCs (None Detected)</b>											
<b>SVOCs (mg/kg)</b>											
2-Methylnaphthalene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	0.011 J	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	ND U	ND U	0.11	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	ND U	ND U	0.13 †	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	ND U	ND U	0.23	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	ND U	ND U	0.1	ND U	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	ND U	ND U	0.081	ND U	ND U	9	--	--	9	1,700	--
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	ND U	ND U	0.17	ND U	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.027 J	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--
Fluoranthene	ND U	ND U	0.3	ND U	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	ND U	ND U	0.091	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Phenanthrene	ND U	ND U	0.085	ND U	ND U	--	--	--	--	--	--
Pyrene	ND U	ND U	0.24	ND U	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>											
Antimony	ND U	ND U	0.32 J	ND U	ND U	5	--	--	31	82	--
Arsenic	2.7	3.8	3.6	2.5	3.1	11.3	13	--	13	61	--
Barium	49	86	82	76	62	1,500	--	--	5,500	14,000	--
Beryllium	0.36	0.55	0.48	0.45	0.41	22	--	--	160	410	--
Boron	1.7 J	2 J	2.5 J	2.2 J	1.6 J	40	--	--	16,000	41,000	--
Cadmium	0.18	0.2	0.44	0.32	0.16	5.2	--	--	78	200	--
Calcium	3,000	5,000	54,000	3,700	2,600	--	--	--	--	--	--
Chromium	9.2	16	11	10	10	21	--	--	230	690	--
Cobalt	4.5	7.6	8.5	5.4	5.5	20	--	--	4,700	12,000	--
Copper	7.7	13	11	10	9.4	2,900	--	--	2,900	8,200	--
Iron	9,100	14,000	11,000	10,000	11,000	15,000	15,900	--	--	--	--
Lead	23	8.6	72	15	8.6	107	--	--	400	700	--
Magnesium	1,500	4,700	1,800	1,500	1,700	325,000	--	--	--	730,000	--
Manganese	180	330	530	260	160	630	636	--	1,600	4,100	--
Mercury	0.042	0.029	0.076	0.031	0.022	0.89	--	--	10	0.1	--
Nickel	10	19	17	14	11	100	--	--	1,600	4,100	--
Potassium	530	850	830	670	650	--	--	--	--	--	--
Selenium	0.48 J	0.33 J	0.5 J	0.59	ND U	1.3	--	--	390	1,000	--
Sodium	41 J	120	63	43 J	42 J	--	--	--	--	--	--
Vanadium	12	19	14	14	13	550	--	--	550	1400	--
Zinc	38	45	75	110	37	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>											
Barium	0.22 J	0.45 J	0.34 J	0.27 J	0.22 J	--	--	--	--	--	2
Boron	0.11 J	0.11 J	0.068 J	0.073 J	ND U	--	--	--	--	--	2
Chromium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	0.27 J	ND U	ND U	ND U	0.32 J	--	--	--	--	--	5
Lead	ND U	ND U	0.021 L	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.042	ND U	0.13	0.013 J	ND U	--	--	--	--	--	0.15
Zinc	0.022 J	ND U	0.082 J	0.092 J	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>											
Lead	NA	NA	0.11 L	NA	NA	--	--	--	--	--	0.0075
Manganese	NA	NA	NA	NA	NA	--	--	--	--	--	0.15

**PTB #172-27; Work Order 46, Contract 64C08 - IDOT Job # P-93-032-01  
CONTAMINANTS OF CONCERN**

SITE	ISGS #1314V3-60 (Vacant Lot)					Comparison Criteria					
	1314V3-60-B04	1314V3-60-B05		1314V3-60-B06		MACs			TACO		
BORING	1314V3-60-B04	1314V3-60-B05 (0-6)	1314V3-60-B05 (6-12)	1314V3-60-B06 (0-6)	1314V3-60-B06 (6-12)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	1314V3-60-B04 (0-5)	1314V3-60-B05 (0-6)	1314V3-60-B05 (6-12)	1314V3-60-B06 (0-6)	1314V3-60-B06 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-5	0-6	6-12	0-6	6-12						
pH	8.9	8.2	7.8	11.8 #	8.3						
<b>VOCs (None Detected)</b>											
<b>SVOCs (mg/kg)</b>											
2-Methylnaphthalene	ND U	ND U	ND U	0.094	ND U	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	0.25	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	ND U	0.0049 J	ND U	--	--	--	--	--	--
Anthracene	0.0084 J	ND U	ND U	0.65 J	ND U	12,000	--	--	23,000	610,000	--
Benzo(a)anthracene	0.036 J	0.011 J	0.02 J	1.2 J †	ND U	0.9	1.8	1.1	1.8	170	--
Benzo(a)pyrene	0.043 J	0.016 J	0.032 J	0.97 J †	ND U	0.09	2.1	1.3	2.1	17	--
Benzo(b)fluoranthene	0.054 J	0.028 J	0.057	1.5 J †	ND U	0.9	2.1	1.5	2.1	170	--
Benzo(g,h,i)perylene	0.051 J	0.019 J	0.037 J	0.32 J	ND U	--	--	--	--	--	--
Benzo(k)fluoranthene	0.04 J	0.013 J	0.023 J	0.5	ND U	9	--	--	9	1,700	--
Carbazole	ND U	ND U	ND U	0.43	ND U	0.6	--	--	32	6,200	--
Chrysene	0.045	0.02 J	0.041 J	1.1 J	ND U	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	0.009 J	ND U	ND U	0.12 J †	ND U	0.09	0.42	0.2	0.42	17	--
Dibenzofuran	ND U	ND U	ND U	0.19	ND U	--	--	--	--	--	--
Fluoranthene	0.079	0.027 J	0.064	3.1 J	ND U	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	ND U	0.26	ND U	560	--	--	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.028 J	0.015 J	0.029 J	0.34 J	ND U	0.9	1.6	0.9	1.6	170	--
Phenanthrene	0.052	0.0059 J	0.012 J	2.5 J	ND U	--	--	--	--	--	--
Pyrene	0.092	0.023 J	0.051	2.2 J	ND U	2,300	--	--	2,300	61,000	--
<b>Inorganics (mg/kg)</b>											
Antimony	ND U	ND U	ND U	0.62 J	ND U	5	--	--	31	82	--
Arsenic	3.1	2.2	2.9	1.7	7	11.3	13	--	13	61	--
Barium	75	70	72	57	120	1,500	--	--	5,500	14,000	--
Beryllium	0.44	0.48	0.5	0.26	0.56	22	--	--	160	410	--
Boron	1.8 J	1.6 J	1.8 J	9.1	2.5 J	40	--	--	16,000	41,000	--
Cadmium	0.26	0.24	0.21	0.17	0.44	5.2	--	--	78	200	--
Calcium	18,000	3,300	3,600	220,000	9,500	--	--	--	--	--	--
Chromium	12	11	13	9.8	16	21	--	--	230	690	--
Cobalt	6.1	7	7	4.6	11	20	--	--	4,700	12,000	--
Copper	9.1	9.5	10	8.8	14	2,900	--	--	2,900	8,200	--
Iron	11,000	11,000	13,000	6,600	18,000 †m	15,000	15,900	--	--	--	--
Lead	26	13	10	22	10	107	--	--	400	700	--
Magnesium	7,000	1,800	2,700	6,400	7,400	325,000	--	--	--	730,000	--
Manganese	380	300	280	680 †m	820 †m	630	636	--	1,600	4,100	--
Mercury	0.029	0.034	0.029	0.014 J	0.032	0.89	--	--	10	0.1	--
Nickel	14	15	15	11	31	100	--	--	1,600	4,100	--
Potassium	550	750	770	450	900	--	--	--	--	--	--
Selenium	0.47 J	0.32 J	ND U	0.63	0.43 J	1.3	--	--	390	1,000	--
Sodium	290	120	130	170	180	--	--	--	--	--	--
Vanadium	16	12	16	12	25	550	--	--	550	1400	--
Zinc	45	46	43	34	49	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>											
Barium	0.74	0.24 J	0.38 J	0.2 J	0.61	--	--	--	--	--	2
Boron	0.068 J	0.065 J	0.06 J	0.15 J	0.07 J	--	--	--	--	--	2
Chromium	ND U	ND U	ND U	0.015 J	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.8 L	ND U	0.042	ND U	0.072	--	--	--	--	--	0.15
Zinc	0.049 J	ND U	ND U	ND U	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>											
Lead	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.49 L	NA	NA	NA	NA	--	--	--	--	--	0.15

# D

## Laboratory Data Package and Site Photographs (on CD-ROM)



# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/6/16

Direction: North

Time: 0947

Description: Orange cone and placard indicate location of boring 1314V3-01-B01



Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/6/16

Direction: North

Time: 1113

Description: Orange cone and placard indicate location of boring 1314V3-01-B02



# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/6/16

Direction: North

Time: 1139

Description: Orange cone and placard indicate location of boring 1314V3-01-B03



Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/6/16

Direction: North

Time: 1228

Description: Orange cone and placard indicate location of boring 1314V3-01-B04



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/6/16

Direction: North

Time: 1250

Description: Orange cone and placard indicate location of boring 1314V3-01-B05



Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/6/16

Direction: Northwest

Time: 1518

Description: Orange cone and placard indicate location of boring 1314V3-01-B06



# PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/6/16  
Direction: Northwest  
Time: 1545

Description: Orange cone and placard indicate location of boring 1314V3-01-B07



Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/7/16  
Direction: Northwest  
Time: 0835

Description: Orange cone and placard indicate location of boring 1314V3-01-B08



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/14/16

Direction: East

Time: 1129

Description: Orange cone and placard indicate location of boring 1314V3-01-B09



Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/7/16

Direction: Northwest

Time: 0837

Description: Orange cone and placard indicate location of boring 1314V3-01-B10



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-1 (IDOT ROW)

Date: 12/5/16  
Direction: Northwest  
Time: 1524

Description: Orange cone and placard indicate location of boring 1314V3-01-B11



Site: ISGS #1314V3-2  
(Mississippi River)

Date: 12/8/16  
Direction: Northwest  
Time: 0948

Description: Orange cone and placard indicate location of boring 1314V3-02-B01



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-2  
(Mississippi River)

Date: 12/8/16

Direction: Northwest

Time: 1102

Description: Orange cone and placard indicate location of boring 1314V3-02-B02



Site: ISGS #1314V3-4  
(City of Moline, Water Department)

Date: 12/6/16

Direction: North

Time: 1034

Description: Orange cone and placard indicate location of boring 1314V3-04-B01



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-4  
(City of Moline, Water Department)

Date: 12/12/16  
Direction: North  
Time: 1236

Description: Area where E&E conducted a magnetometer survey.



Site: ISGS #1314V3-5  
(Industrial Building)

Date: 12/9/16  
Direction: northwest  
Time: 1029

Description: Orange cone and placard indicate location of boring 1314V3-05-B01





## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-5  
(Industrial Building)

Date: 12/9/16

Direction: North

Time: 0837

Description: Orange cone and placard indicate location of boring 1314V3-05-B02



Site: ISGS #1314V3-5  
(Industrial Building)

Date: 12/9/16

Direction: North

Time: 0848

Description: Orange cone and placard indicate location of boring 1314V3-05-B03



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-5  
(Industrial Building)

Date: 12/12/16  
Direction: North  
Time: 1239

Description: Area where E&E conducted a magnetometer survey.



Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/8/16  
Direction: Northwest  
Time: 1136

Description: Orange cone and placard indicate location of boring 1314V3-06-B01



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/8/16  
Direction: Northwest  
Time: 1159

Description: Orange cone and placard indicate location of boring 1314V3-06-B02



Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/8/16  
Direction: Northwest  
Time: 1223

Description: Orange cone and placard indicate location of boring 1314V3-06-B03



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/13/16  
Direction: North  
Time: 1207

Description: Orange cone and placard indicate location of boring 1314V3-06-B04



Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/13/16  
Direction: North  
Time: 1229

Description: Orange cone and placard indicate location of boring 1314V3-06-B05



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/13/16  
Direction: North  
Time: 1300

Description: Orange cone and placard indicate location of boring 1314V3-06-B06



Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/13/16  
Direction: North  
Time: 1406

Description: Orange cone and placard indicate location of boring 1314V3-06-B07



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/13/16  
Direction: North  
Time: 1334

Description: Orange cone and placard indicate location of boring 1314V3-06-B08



Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/13/16  
Direction: North  
Time: 1210

Description: Orange cone and placard indicate location of boring 1314V3-06-B09



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/7/16  
Direction: Northwest  
Time: 1024

Description: Orange cone and placard indicate location of boring 1314V3-06-B10



Site: ISGS #1314V3-6  
(Vacant Land)

Date: 12/7/16  
Direction: Northwest  
Time: 1049

Description: Orange cone and placard indicate location of boring 1314V3-06-B11



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-7  
(River Stone Moline Yard)

Date: 12/7/16  
Direction: Northwest  
Time: 1414

Description: Orange cone and placard indicate location of boring 1314V3-07-B01



Site: ISGS #1314V3-7  
(River Stone Moline Yard)

Date: 12/7/16  
Direction: Northwest  
Time: 1509

Description: Orange cone and placard indicate location of boring 1314V3-07-B02





# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-7  
(River Stone Moline Yard)

Date: 12/7/16  
Direction: Northwest  
Time: 1524

Description: Orange cone and placard indicate location of boring 1314V3-07-B03



Site: ISGS #1314V3-7  
(River Stone Moline Yard)

Date: 12/7/16  
Direction: Northwest  
Time: 1606

Description: Orange cone and placard indicate location of boring 1314V3-07-B04



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-8 (Commercial Building)

Date: 12/6/16

Direction: Northwest

Time: 0831

Description: Orange cone and placard indicate location of boring 1314V3-08-B01



Site: ISGS #1314V3-11 (Vacant Land)

Date: 12/8/16

Direction: North

Time: 1649

Description: Orange cone and placard indicate location of boring 1314V3-11-B01



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-11  
(Vacant Land)

Date: 12/8/16  
Direction: North  
Time: 1647

Description: Orange cone and placard indicate location of boring 1314V3-11-B02



Site: ISGS #1314V3-11  
(Vacant Land)

Date: 12/8/16  
Direction: North  
Time: 1645

Description: Orange cone and placard indicate location of boring 1314V3-11-B03



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-17  
(Parking Lot)

Date: 12/9/16

Direction: Northwest

Time: 0921

Description: Orange cone and placard indicate location of boring 1314V3-17-B01



Site: ISGS #1314V3-17  
(Parking Lot)

Date: 12/9/16

Direction: Northwest

Time: 0949

Description: Orange cone and placard indicate location of boring 1314V3-17-B02



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-17  
(Parking Lot)

Date: 12/9/16  
Direction: Northwest  
Time: 0949

Description: Orange cone and placard indicate location of boring 1314V3-17-B03



Site: ISGS #1314V3-17  
(Parking Lot)

Date: 12/12/16  
Direction: Northwest  
Time: 1244

Description: Area where E&E conducted a magnetometer survey.



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1304

Description: Orange cone and placard indicate location of boring 1314V3-18-B01



Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/1/16  
Direction: West  
Time: 1505

Description: Orange cone and placard indicate location of boring 1314V3-18-B02



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: West  
Time: 1434

Description: Orange cone and placard indicate location of boring 1314V3-18-B03



Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1639

Description: Orange cone and placard indicate location of boring 1314V3-18-B04



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1431

Description: Orange cone and placard indicate location of boring 1314V3-18-B05



Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1216

Description: Orange cone and placard indicate location of boring 1314V3-18-B06





## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1638

Description: Orange cone and placard indicate location of boring 1314V3-18-B07



Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1640

Description: Orange cone and placard indicate location of boring 1314V3-18-B08



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1641

Description: Orange cone and placard indicate location of boring 1314V3-18-B09



Site: ISGS #1314V3-18  
(Vacant Land)

Date: 12/14/16  
Direction: East  
Time: 1641

Description: Area in the vicinity of borings 1314V3-18-B04, -B07, -B08, and -B09 where E&E conducted a magnetometer survey.



# PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-21  
(BNSF Railroad)

Date: 11/29/16  
Direction: East  
Time: 1229

Description: Orange cone and placard indicate location of boring 1314V3-21-B01



Site: ISGS #1314V3-21  
(BNSF Railroad)

Date: 11/29/16  
Direction: East  
Time: 1214

Description: Orange cone and placard indicate location of boring 1314V3-21-B02



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/13/16

Direction: North

Time: 1535

Description: Orange cone and placard indicate location of boring 1314V3-24-B01



Site: ISGS #1314V3-24 (John Deere)

Date: 12/13/16

Direction: North

Time: 1720

Description: Orange cone and placard indicate location of boring 1314V3-24-B02



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/13/16

Direction: North

Time: 1641

Description: Orange cone and placard indicate location of boring 1314V3-24-B03



Site: ISGS #1314V3-24 (John Deere)

Date: 12/13/16

Direction: North

Time: 1619

Description: Orange cone and placard indicate location of boring 1314V3-24-B04



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/9/16

Direction: East

Time: 1154

Description: Orange cone and placard indicate location of boring 1314V3-24-B05



Site: ISGS #1314V3-24 (John Deere)

Date: 12/9/16

Direction: Northwest

Time: 1125

Description: Orange cone and placard indicate location of boring 1314V3-24-B06



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/9/16

Direction: East

Time: 1214

Description: Orange cone and placard indicate location of boring 1314V3-24-B07



Site: ISGS #1314V3-24 (John Deere)

Date: 12/9/16

Direction: East

Time: 1224

Description: Orange cone and placard indicate location of boring 1314V3-24-B08



# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/13/16

Direction: West

Time: 1053

Description: Orange cone and placard indicate location of boring 1314V3-24-B09



Site: ISGS #1314V3-24 (John Deere)

Date: 12/13/16

Direction: North

Time: 1446

Description: Orange cone and placard indicate location of boring 1314V3-24-B10





# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: North

Time: 1017

Description: Orange cone and placard indicate location of boring 1314V3-24-B11



Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: North

Time: 1019

Description: Orange cone and placard indicate location of boring 1314V3-24-B12



# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: North

Time: 1023

Description: Orange cone and placard indicate location of boring 1314V3-24-B13



Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: North

Time: 1018

Description: Orange cone and placard indicate location of boring 1314V3-24-B14



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: North

Time: 1030

Description: Area where E&E conducted a magnetometer survey. Cones mark borings 1314V3-24-B11, -B12, -B13, -B14, and a small anomaly detected during the survey.



Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: East

Time: 1030

Description: Area where E&E conducted a magnetometer survey. Cones mark borings 1314V3-24-B11, -B12, -B13, -B14, and a small anomaly detected during the survey.



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: South

Time: 1030

Description: Area where E&E conducted a magnetometer survey. Cones mark borings 1314V3-24-B11, -B12, -B13, -B14, and a small anomaly detected during the survey.



Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16

Direction: West-northwest

Time: 1030

Description: Area where E&E conducted a magnetometer survey. Cones mark borings 1314V3-24-B11, -B12, -B13, -B14, and a small anomaly detected during the survey.



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-24 (John Deere)

Date: 12/14/16  
Direction: West  
Time: 1031

Description: The four cones outline a small anomaly detected during the survey.



Site: ISGS #1314V3-25  
(Sivyer Steel Corp.)

Date: 11/28/16  
Direction: East  
Time: 1512

Description: Orange cone and placard indicate location of boring 1314V3-25-B01



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-25  
(Sivyer Steel Corp.)

Date: 11/28/16

Direction: East

Time: 1545

Description: Orange cone and placard indicate location of boring 1314V3-25-B02



Site: ISGS #1314V3-25  
(Sivyer Steel Corp.)

Date: 11/28/16

Direction: North

Time: 1246

Description: Orange cone and placard indicate location of boring 1314V3-25-B03



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-25  
(Sivyer Steel Corp.)

Date: 11/28/16  
Direction: North  
Time: 1308

Description: Orange cone and placard indicate location of boring 1314V3-25-B04



Site: ISGS #1314V3-25  
(Sivyer Steel Corp.)

Date: 11/28/16  
Direction: East  
Time: 1635

Description: Orange cone and placard indicate location of boring 1314V3-25-B05



# PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-25  
(Sivyer Steel Corp.)

Date: 11/28/16  
Direction: North  
Time: 1351

Description: Orange cone and placard indicate location of boring 1314V3-25-B06



Site: ISGS #1314V3-25  
(Sivyer Steel Corp.)

Date: 11/28/16  
Direction: North  
Time: 1420

Description: Orange cone and placard indicate location of boring 1314V3-25-B07





## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-26  
(Commercial Building)

Date: 12/1/16

Direction: Northwest

Time: 1420

Description: Orange cone and placard indicate location of boring 1314V3-26-B01



Site: ISGS #1314V3-26  
(Commercial Building)

Date: 12/1/16

Direction: Northeast

Time: 1445

Description: Orange cone and placard indicate location of boring 1314V3-26-B02



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-26  
(Commercial Building)

Date: 12/12/16  
Direction: Northwest  
Time: 1257

Description: Area where E&E conducted a magnetometer survey.



Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: North  
Time: 1527

Description: Orange cone and placard indicate location of boring 1314V3-32-B01



# PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: North  
Time: 1558

Description: Orange cone on the right side of photo indicates location of boring 1314V3-32-B02



Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: North  
Time: 1530

Description: Orange cone and placard indicate location of boring 1314V3-32-B03



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: North  
Time: 1529

Description: Orange cone and placard indicate location of boring 1314V3-32-B04



Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: North  
Time: 1528

Description: Orange cone and placard indicate location of boring 1314V3-32-B05



# PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: North  
Time: 1327

Description: Orange cone and placard indicate location of boring 1314V3-32-B06



Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/1/16  
Direction: Northwest  
Time:

Description: Orange cone and placard indicate location of boring 1314V3-32-B07



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/1/16  
Direction: Northwest  
Time: 1221

Description: Orange cone and placard indicate location of boring 1314V3-32-B08



Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: North  
Time: 1558

Description: Area where E&E conducted a magnetometer survey. Orange cones indicate the locations of borings 1314V3-32-B01, -B02, -B03, -B04, and -B05



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-32  
(Commercial Buildings)

Date: 12/15/16  
Direction: Southeast  
Time: 1558

Description: Area where E&E conducted a magnetometer survey. Orange cones indicate the locations of borings 1314V3-32-B01, -B02, -B03, -B04, and -B05



Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: North  
Time: 1104

Description: Orange cone and placard indicate location of boring 1314V3-33-B01



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: North  
Time: 0849

Description: Orange cone and placard indicate location of boring 1314V3-33-B02



Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: North  
Time: 1105

Description: Orange cone and placard indicate location of boring 1314V3-33-B03





# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: North  
Time: 1106

Description: Orange cone and placard indicate location of boring 1314V3-33-B04



Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: North  
Time: 1107

Description: Orange cone and placard indicate location of boring 1314V3-33-B05



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: North  
Time: 1146

Description: Orange cone and placard indicate location of boring 1314V3-33-B06



Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: North  
Time: 0854

Description: Orange cone and placard indicate location of boring 1314V3-33-B07



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: South  
Time: 1108

Description: Area where E&E conducted a magnetometer survey. Orange cones indicate the locations of borings 1314V3-33-B01, -B03, -B04, and -B05



Site: ISGS #1314V3-33  
(Parking Lot)

Date: 12/15/16  
Direction: Southwest  
Time: 1108

Description: Area where E&E conducted a magnetometer survey. Orange cones indicate the locations of borings 1314V3-33-B01, -B03, -B04, and -B05



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-56  
(Commercial Building)

Date: 12/1/16  
Direction: Northeast  
Time: 1115

Description: Orange cone and placard indicate location of boring 1314V3-56-B01



Site: ISGS #1314V3-56  
(Commercial Building)

Date: 12/1/16  
Direction: Northwest  
Time: 1051

Description: Orange cone and placard indicate location of boring 1314V3-56-B02



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-56  
(Commercial Building)

Date: 12/1/16  
Direction: Northwest  
Time: 1049

Description: Orange cone and placard indicate location of boring 1314V3-56-B03



Site: ISGS #1314V3-56  
(Commercial Building)

Date: 12/12/16  
Direction: Northwest  
Time: 1303

Description: Area where E&E conducted a magnetometer survey.



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-56  
(Commercial Building)

Date: 12/12/16  
Direction: Northeast  
Time: 1304

Description: Area where E&E conducted a magnetometer survey.



Site: ISGS #1314V3-57  
(Old Chamber Building)

Date: 12/1/16  
Direction: Northwest  
Time: 1027

Description: Orange cone and placard indicate location of boring 1314V3-57-B01



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-57  
(Old Chamber Building)

Date: 12/1/16  
Direction: Northeast  
Time: 1004

Description: Orange cone and placard indicate location of boring 1314V3-57-B02



Site: ISGS #1314V3-57  
(Old Chamber Building)

Date: 12/1/16  
Direction: Northeast  
Time: 0951

Description: Orange cone and placard indicate location of boring 1314V3-57-B03



## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-59 (Residence)

Date: 12/1/16

Direction: Northeast

Time: 1138

Description: Orange cone and placard indicate location of boring 1314V3-59-B01



Site: ISGS #1314V3-59 (Residence)

Date: 12/12/16

Direction: Northeast

Time: 1305

Description: Area where E&E conducted a magnetometer survey.





## PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-60  
(Vacant Lot)

Date: 12/5/16  
Direction: Northwest  
Time: 1247

Description: Orange cone and placard indicate location of boring 1314V3-60-B01



Site: ISGS #1314V3-60  
(Vacant Lot)

Date: 12/5/16  
Direction: Northwest  
Time: 1426

Description: Orange cone and placard indicate location of boring 1314V3-60-B02



## PHOTOGRAPHIC RECORD

Work Order No: 046  
Route: FAI 74  
Contract Number: PTB 172-027  
IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-60  
(Vacant Lot)

Date: 12/5/16  
Direction: Northwest  
Time: 1421

Description: Orange cone and placard indicate location of boring 1314V3-60-B03



Site: ISGS #1314V3-60  
(Vacant Lot)

Date: 12/5/16  
Direction: Northwest  
Time: 1357

Description: Orange cone and placard indicate location of boring 1314V3-60-B04



# PHOTOGRAPHIC RECORD

Work Order No: 046

Route: FAI 74

Contract Number: PTB 172-027

IDOT Project Number: P-93-032-01

Site: ISGS #1314V3-60  
(Vacant Lot)

Date: 12/5/16  
Direction: Northwest  
Time: 1354

Description: Orange cone and placard indicate location of boring 1314V3-60-B05



Site: ISGS #1314V3-60  
(Vacant Lot)

Date: 12/5/16  
Direction: Northwest  
Time: 1317

Description: Orange cone and placard indicate location of boring 1314V3-60-B06



# E

## Analytical Summary Tables from Weston WO40

**CONFIDENTIAL**

**REVISED  
PRELIMINARY SITE INVESTIGATION REPORT  
OF POTENTIAL WASTE SITES  
FAI 74: INTERSTATE 74  
FROM 19<sup>th</sup> STREET TO 23<sup>rd</sup> STREET  
MOLINE, ROCK ISLAND COUNTY, ILLINOIS**

**THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.**

**AGREEMENT No. PTB 167-034  
WESTON WORK ORDER No. 040  
ISGS REPORT No. 1314V2  
DESIGN APPROVAL DATE: 31 December 2003  
ANTICIPATED LETTING DATE: 13 June 2014  
JOB No. P-92-032-01  
CONTRACT No. 64J68  
SEQUENCE No. 9724A**

Prepared for

**ILLINOIS DEPARTMENT OF TRANSPORTATION  
BUREAU OF DESIGN AND ENVIRONMENT  
2300 South Dirksen Parkway  
Springfield, Illinois 62764**

Prepared by

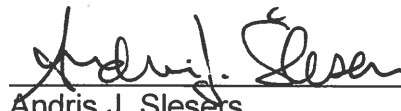
**WESTON SOLUTIONS, INC.**  
750 East Bunker Ct., Suite 500  
Vernon Hills, Illinois 60061

May 2014

**REVISED  
PRELIMINARY SITE INVESTIGATION  
OF POTENTIAL WASTE SITES  
FAI 74: INTERSTATE 74  
FROM 19<sup>th</sup> STREET TO 23<sup>rd</sup> STREET  
MOLINE, ROCK ISLAND COUNTY, ILLINOIS**

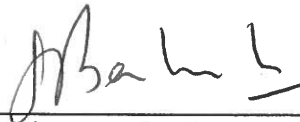
Prepared for  
**ILLINOIS DEPARTMENT OF TRANSPORTATION  
BUREAU OF DESIGN AND ENVIRONMENT**  
2300 South Dirksen Parkway  
Springfield, Illinois 62764

May 2014



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Andris J. Slesers  
Task Order Manager



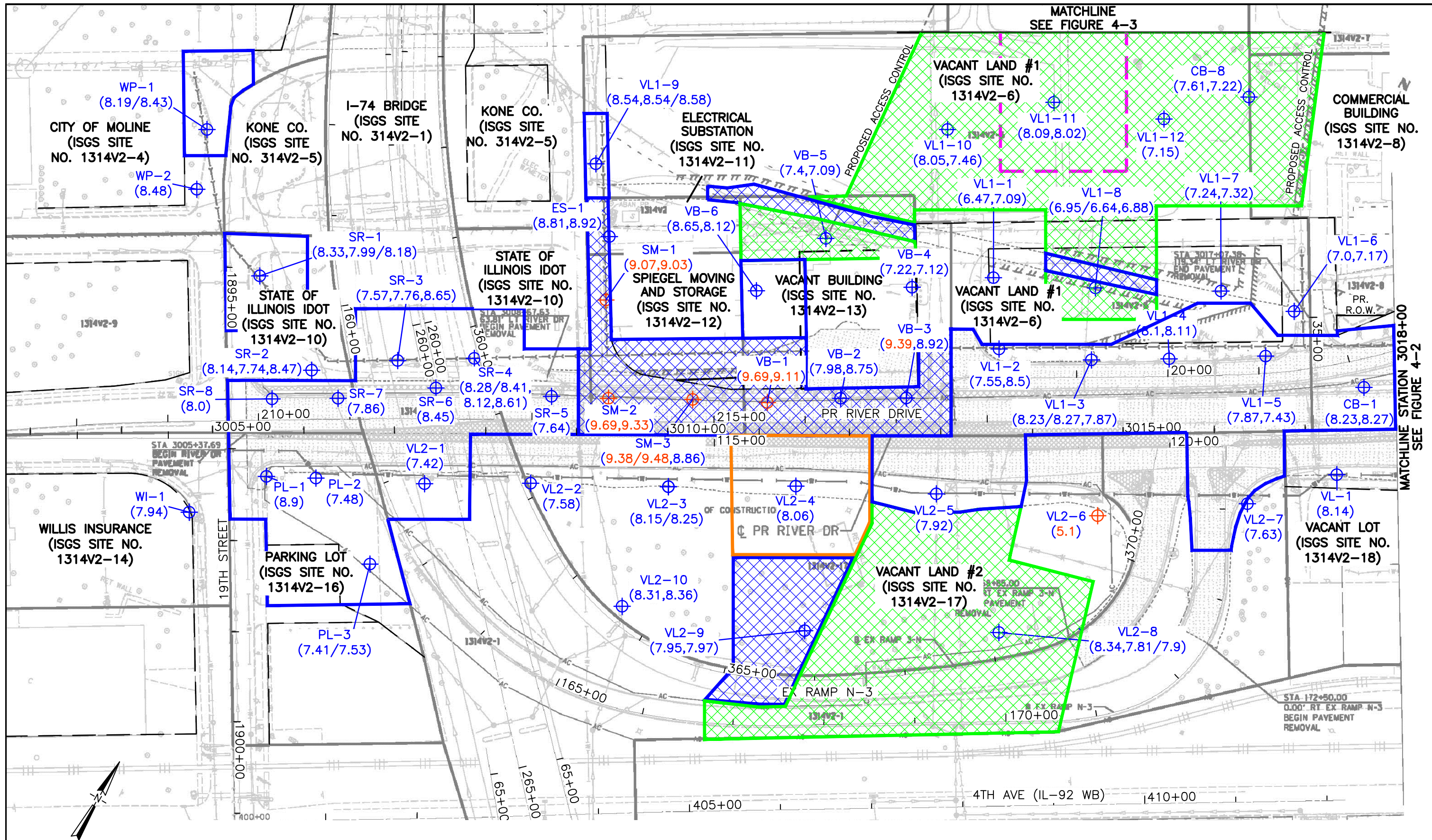
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S. Babusukumar, P.G.  
Program Manager

Prepared by

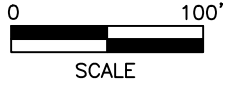
WESTON SOLUTIONS, INC.  
750 E. Bunker Ct., Suite 500  
Vernon Hills, Illinois 60061

WESTON Work Order No. 02056-013-040



MATCHLINE  
SEE FIGURE 4-3

MATCHLINE STATION 3018+00  
SEE FIGURE 4-2



LEGEND, NOTES AND DATA ARE PRESENTED ON FIGURES 4-1a THROUGH 4-1g.








750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

EXTENT OF POTENTIALLY IMPACTED SOIL  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3003+00 TO 3018+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

FIGURE 4-1

Field Sample ID	CB-1(0-6)-040814	CB-1(6-8)-040814	CB-8(0-5)-040814	CB-8(5-10)-040814	ES-1(0-5)-040814	ES-1(5-10)-040814	PL-1(0-5.5)-040714	PL-2(0-5.5)-040714	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/7/2014	4/7/2014		
Location ID	CB-1	CB-1	CB-8	CB-8	ES-1	ES-1	PL-1	PL-2		
Depth	0 - 6	6 - 8	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5.5	0 - 5.5		
Parameter										
Laboratory pH	8.23	8.27	7.61	7.22	8.81	8.92	8.9	7.48	<6.25,>9.0	--
<b>SVOCs (ug/kg)</b>										
Benzo(a)pyrene	35	ND	480	ND	51	30 J	360	220	90 / 1300 / 2100	17000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	26 J	97	53	90 / 200 / 420	17000
<b>Total Metals (mg/kg)</b>										
Iron, Total	9200 J	8300 J	26000 J	21000 J	8900 J-	7900 J-	8600 J	18000 J	15000 / 15900	--
Lead, Total	22 J	2.9 J	110 J	9.4 J	27 J	19 J	20 J	9 J	107	700
Manganese, Total	120 J	95 J	520 J	610 J	400 J	480 J	310	340	630 / 636	4100
Mercury, Total	0.0085 J	0.011 J	0.35 J	0.023 J	0.22 J	0.023 J	0.014 J	0.038 J	0.89	0.1
Selenium, Total	0.31 J	0.47 J	1.5 J-	0.92 J-	ND	ND	ND	ND	1.3	1000
<b>TCLP Metals (mg/l)</b>										
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	5	--
Lead, TCLP	0.0095	ND	0.019	ND	ND	ND	ND	ND	0.0075	--
Manganese, TCLP	0.069	0.059	9.6	11	2.9	3.5	0.55	0.027	0.15	--
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.002	--
Selenium, TCLP	ND	ND	ND	0.013 J	ND	ND	ND	ND	0.05	--
<b>SPLP Metals (mg/l)</b>										
Iron, SPLP	18 J+	15 J+	2.3 J+	34 J+	12 J+	3 J+	1.4	13	5	--
Lead, SPLP	0.037	0.017	0.033	0.02	0.035	0.012	0.068	0.014	0.0075	--
Manganese, SPLP	0.15 B	0.081 B	0.22 B	0.99 B	0.11	0.15	0.13	0.17	0.15	--
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.0002	0.00015 J	0.002	--
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.05	--

**LEGEND**

- — — EXISTING R.O.W.
- - - - PROPOSED R.O.W.
- ⊕ SOIL BORING LOCATION
- (X.XX/X.XX) SOIL SAMPLE pH VALUES. A / REPRESENTS A SOIL SAMPLE AND DUPLICATE SOIL SAMPLE pH VALUES. RED INDICATES A pH VALUE EITHER LESS THAN 6.25 S.U. OR GREATER THAN 9.0 S.U.
-  CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS. SOIL EXCAVATED FROM THIS AREA SHOULD BE MANAGED AS A NON-SPECIAL WASTE.
-  CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. SOIL MAY BE MANAGED TO A CCDD OR UNCONTAMINATED SOIL FILL OPERATION WITHIN A MSA COUNTY OR CHICAGO CORPORATE LIMITS.
-  CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. SOIL MAY BE MANAGED TO A CCDD OR UNCONTAMINATED SOIL FILL OPERATION WITHIN A MSA COUNTY, EXCLUDING CHICAGO.
-  ACQUISITION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS. ANY EXCAVATED MATERIAL SHOULD BE MANAGED AS A NON-SPECIAL WASTE.
-  APPROXIMATE AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKER REFERENCE CONCENTRATIONS

**NOTES:**

1. ORGANIC SOIL REFERENCE CONCENTRATIONS (RC) INCLUDE THE MOST STRINGENT VALUES FROM THE MAC TABLE. THE SECOND AND THIRD RC, AS APPLICABLE, ARE THE CHICAGO CORPORATE LIMIT, AND MSA COUNTY EXCLUDING CHICAGO VALUES FROM THE MAC TABLE.
2. INORGANIC SOIL REFERENCE CONCENTRATIONS (RC) INCLUDE THE MOST STRINGENT VALUES FROM THE MAC TABLE. THE SECOND RC, AS APPLICABLE, IS THE MSA COUNTY VALUE FROM THE MAC TABLE.
3. ONLY SAMPLES AND PARAMETERS WITH EXCEEDANCES IMPACTING CONSTRUCTION ACTIVITIES ARE PRESENTED ON THIS FIGURE: SEE TABLES 4-2 AND 4-3 AND APPENDIX C FOR ALL DATA.
4. YELLOW IN THE TABLE INDICATES CONCENTRATION EXCEEDS THE REFERENCE CONCENTRATION FOR SOIL.
5. BLUE IN THE TABLE INDICATES CONCENTRATION EXCEEDS THE REMEDIATION OBJECTIVES FOR CONSTRUCTION WORKERS.
6. GREEN IN THE TABLE INDICATES CONCENTRATION EXCEEDS BOTH THE REFERENCE CONCENTRATION FOR SOIL THE REMEDIATION OBJECTIVES FOR CONSTRUCTION WORKERS.

FIGURE 4-1a



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

INVESTIGATION RESULTS  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3003+00 TO 3018+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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Field Sample ID	PL-3(0-5)-040714	PL-3(5-10)-040714	SM-1(0-6)-040814	SM-1(6-10)-040814	SM-2(0-6)-040814	SM-2(6-12)-040814	SM-3(0-6)-040814	SM-3(0-6)-040814D	SM-3(6-12)-040814	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/7/2014	4/7/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	PL-3	PL-3	SM-1	SM-1	SM-2	SM-2	SM-3	SM-3	SM-3		
Depth	0 - 5	5 - 10	0 - 6	6 - 10	0 - 6	6 - 12	0 - 6	0 - 6	6 - 12		
Parameter											
Laboratory pH	7.41	7.53	9.07	9.03	9.69	9.33	9.38	9.48	8.86	<6.25,>9.0	—
<b>Total Metals (mg/kg)</b>											
Chromium, Total	15 J+	22 J+	15 J	6.3 J	9.6 J	8.5 J	8.1 J	9.6 J	7 J	21	690
Iron, Total	14000 J	17000 J	14000 J-	7100 J-	9900 J-	10000 J-	11000 J-	12000 J-	8100 J-	15000 / 15900	—
Lead, Total	7.7 J	7.2 J	28 J	23 J	22 J	36 J	42 J	41 J	24 J	107	700
Manganese, Total	350	440	600 J	180 J	240 J	480 J	350 J	330 J	210 J	630 / 636	4100
Mercury, Total	0.045 J	0.054 J	8.00E-02 J	0.12 J	6.90E-02 J	0.35 J	0.24 J	0.13 J	0.044 J	0.89	0.1
<b>TCLP Metals (mg/l)</b>											
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	—
Iron, TCLP	2.7	ND	ND	ND	ND	ND	ND	ND	ND	5	—
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.0094	0.0075	—
Manganese, TCLP	7	4.6	0.86	2.6	0.51	2.5	1 J	4.7 J	4.8	0.15	—
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	—
<b>SPLP Metals (mg/l)</b>											
Chromium, SPLP	0.015 J	ND	0.071	0.027	0.084	0.014 J	ND	0.04	0.03	0.1	—
Iron, SPLP	9.5	4.5	67 J+	18 J+	68 J+	7.8 J+	6.9 J	35 J	26 J+	5	—
Lead, SPLP	0.012	0.012	0.088	0.064	0.14	0.078	0.088 J	0.15 J	0.11	0.0075	—
Manganese, SPLP	0.97	0.49	0.6	0.16	0.54	0.4	0.23 J	0.43 J	0.58	0.15	—
Mercury, SPLP	ND	0.00023	0.00019 J	ND	0.00018 J	0.00018 J	0.00027	0.00031	ND	0.002	—

Field Sample ID	SR-1(0-5)-040714	SR-1(5-10)-040714	SR-1(5-10)-040714D	SR-2(0-5)-040714	SR-2(5-10)-040714	SR-2(10-13)-040714	SR-3(0-5)-040714	SR-3(5-10)-040714	SR-3(10-13)-040714	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	SR-1	SR-1	SR-1	SR-2	SR-2	SR-2	SR-3	SR-3	SR-3		
Depth	0 - 5	5 - 10	5 - 10	0 - 5	5 - 10	10 - 13	0 - 5	5 - 10	10 - 13		
Parameter											
Laboratory pH	8.23	7.99	8.18	8.14	7.74	8.47	7.57	7.76	8.65	<6.25,>9.0	—
<b>SVOCs (ug/kg)</b>											
Benzo(a)pyrene	110	ND	ND	62	15 J	ND	220	ND	ND	90 / 1300 / 2100	17000
<b>Total Metals (mg/kg)</b>											
Cadmium, Total	0.81 J	0.068 J	0.12 J	0.38 J	0.36 J	0.014 J	0.97 J	0.38 J	ND	5.2	200
Iron, Total	15000 J	7100 J	14000 J	12000 J	17000 J	2200 J	17000 J	17000 J	4900 J	15000 / 15900	—
Lead, Total	150 J	5.3 J	6.7 J	27 J	17 J	1.2 J	84 J	14 J	1.3 J	107	700
Manganese, Total	510 J-	100 J-	120 J-	460 J-	470 J-	27 J-	540 J-	790 J-	59 J-	630 / 636	4100
Mercury, Total	0.83 J	0.024 J	0.021 J	0.058 J	0.03 J	ND	0.29 J	0.041 J	ND	0.89	0.1
<b>TCLP Metals (mg/l)</b>											
Cadmium, TCLP	0.0032 J	ND	ND	0.002 J	ND	ND	0.0056	ND	ND	0.005	—
Iron, TCLP	ND	ND	0.79	ND	ND	0.92	ND	1.7	0.98	5	—
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075	—
Manganese, TCLP	0.48	0.41 J	0.12 J	0.39	0.27	0.73	0.54	0.13	1	0.15	—
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	—
<b>SPLP Metals (mg/l)</b>											
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	—
Iron, SPLP	25 J+	5.9 J+	3.2 J+	4.1 J+	4.5 J+	0.41 J+	4.6 J+	13 J+	0.33 J+	5	—
Lead, SPLP	0.074	0.0087	ND	0.014	0.016	ND	0.072	ND	ND	0.0075	—
Manganese, SPLP	0.16	0.029	0.022 J	0.051	0.061	0.079	0.087	0.081	0.072	0.15	—
Mercury, SPLP	0.0014	ND	ND	0.00013 J	ND	ND	0.00032	0.0003	ND	0.002	—

FIGURE 4-1b



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

INVESTIGATION RESULTS  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3003+00 TO 3018+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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Field Sample ID	SR-4(0-5)-040714	SR-4(0-5)-040714D	SR-4(5-10)-040714	SR-4(10-12)-040714	SR-5(0-5)-040714	SR-6(0-5)-040714	SR-7(0-3)-040714	SR-8(0-3)-040714	VB-1(0-6)-040814	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/8/2014		
Location ID	SR-4	SR-4	SR-4	SR-4	SR-5	SR-6	SR-7	SR-8	VB-1		
Depth	0 - 5	0 - 5	5 - 10	10 - 12	0 - 5	0 - 5	0 - 3	0 - 3	0 - 6		
Parameter											
Laboratory pH	8.28	8.41	8.12	8.61	7.64	8.45	7.86	8	9.69	<6.25,>9.0	---
<b>SVOCs (ug/kg)</b>											
Benz(a)pyrene	50	53	73	53	15 J	47	270	170	56	90 / 1300 / 2100	17000
<b>Total Metals (mg/kg)</b>											
Chromium, Total	16	13	14	13	18	13	17	16	7.2 J	21	690
Iron, Total	16000 J	14000 J	17000 J	14000 J	18000 J	14000 J	14000 J	16000 J	9000 J-	15000 / 15900	---
Lead, Total	54 J	54 J	48 J	52 J	10 J	42 J	130 J	60 J	33 J	107	700
Manganese, Total	630 J-	400 J-	390 J-	380 J-	580 J-	550 J-	430 J-	410 J-	320 J	630 / 636	4100
Mercury, Total	0.11 J	0.1 J	0.094 J	0.17 J	0.036 J	7.30E-02 J	0.42 J	0.12 J	1.6 J	0.89	0.1
Nickel, Total	20	14	16	16	17	12	15	16	6.8 J-	100	4100
<b>TCLP Metals (mg/l)</b>											
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	---
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	---
Lead, TCLP	0.01	ND	0.0094	0.017	ND	0.0079	0.0097	ND	ND	0.0075	---
Manganese, TCLP	0.43	0.52	6.8	6.7	0.53	1.7	1.8	0.22	0.78	0.15	---
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.011 J	0.011 J	0.026	0.045	ND	ND	ND	ND	ND	0.1	---
<b>SPLP Metals (mg/l)</b>											
Chromium, SPLP	0.016 J	0.011 J	0.011 J	0.011 J	0.15	0.014 J	0.01 J	0.019 J	0.063	0.1	---
Iron, SPLP	12 J+	7.2 J+	7.6 J+	8.1 J+	150 J+	8.6 J+	6.8 J+	13 J+	51 J+	5	---
Lead, SPLP	0.07	0.073	0.14	0.11	0.076	0.017	0.09	0.085	0.17	0.0075	---
Manganese, SPLP	0.26	0.25	0.96	0.45	0.64	0.048	0.15	0.14	0.64	0.15	---
Mercury, SPLP	0.00034	0.00046	0.00034	0.00048	0.00056	ND	0.00067	0.00027	0.00041	0.002	---
Nickel, SPLP	0.012 J	ND	0.011 J	0.01 J	0.12	ND	ND	0.012 J	0.039	0.1	---

Field Sample ID	VB-1(6-10)-040814	VB-2(0-6)-040814	VB-2(6-12.5)-040814	VB-3(0-6)-040814	VB-3(6-12.5)-040814	VB-4(0-5)-040814	VB-4(5-10)-040814	VB-5(0-5)-040814	VB-5(5-10)-040814	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VB-1	VB-2	VB-2	VB-3	VB-3	VB-4	VB-4	VB-5	VB-5		
Depth	6 - 10	0 - 6	6 - 12.5	0 - 6	6 - 12.6	0 - 5	5 - 10	0 - 5	5 - 10		
Parameter											
Laboratory pH	9.11	7.98	8.75	9.39	8.92	7.22	7.12	7.4	7.09	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>											
Arsenic, Total	8.1 J	2.5 J	2.9 J	2.6 J	2.7 J	1.2 J	1.3 J	1.6 J	33 J	11.3 / 13	61
Chromium, Total	11 J	8.7 J	10 J	10 J	6.7 J	7	11	13	13	21	690
Cobalt, Total	5.7 J	3.9 J	4.5 J	4.2 J	3 J	2.4	4	4.5	32	20	12000
Iron, Total	17000 J-	8500 J-	9800 J-	9800 J-	7300 J-	5900 J+	8400 J+	10000 J+	29000 J+	15000 / 15900	---
Lead, Total	6.6 J	4.6 J	4.4 J	5.4 J	2.6 J	2.6 J	3 J	15 J	6.5 J	107	700
Manganese, Total	170 J	130 J	210 J	110 J	82 J	94 J	440 J	51 J	3400 J	630 / 636	4100
<b>TCLP Metals (mg/l)</b>											
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	0.017 J	ND	ND	0.022 J	ND	1	---
Iron, TCLP	1.5	0.3	ND	1.5	0.22	0.3	0.94	0.3	1	5	---
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	0.022	ND	0.0075	---
Manganese, TCLP	0.23	0.061	1.4	0.12	0.95	0.05	0.019 J	0.56	0.55	0.15	---
<b>SPLP Metals (mg/l)</b>											
Arsenic, SPLP	0.09	ND	ND	0.022 J	ND	ND	ND	ND	0.049 J	0.05	---
Chromium, SPLP	0.13	0.018 J	0.014 J	0.12	0.01 J	0.063	0.039	0.042	0.042	0.1	---
Cobalt, SPLP	0.036	ND	ND	0.021 J	ND	ND	ND	0.012 J	0.015 J	1	---
Iron, SPLP	160 J+	12 J+	8.6 J+	100 J+	3.3 J+	47	27	33	56	5	---
Lead, SPLP	0.076	0.017	0.0093	0.065	0.0075	0.023	0.022	0.04	0.016	0.0075	---
Manganese, SPLP	0.62	0.11	0.15	0.37	0.1	0.18	0.17	0.11	0.69	0.15	---

FIGURE 4-1c



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

INVESTIGATION RESULTS  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3003+00 TO 3018+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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Field Sample ID	VB-6(0-5)-040914	VB-6(5-10)-040914	VL-1(0-5.5)-040914	VL1-1(0-5)-040814	VL1-1(5-10)-040814	VL1-2(0-6)-040814	VL1-2(6-10)-040814	VL1-3(0-6)-040814	VL1-3(0-6)-040814D	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VB-6	VB-6	VL-1	VL1-1	VL1-1	VL1-2	VL1-2	VL1-3	VL1-3		
Depth	0 - 5	5 - 10	0 - 5.5	0 - 5	5 - 10	0 - 6	6 - 10	0 - 6	0 - 6		
Parameter											
Laboratory pH	8.65	8.12	8.14	6.47	7.09	7.55	8.5	8.23	8.21	<6.25,>9.0	--
<b>Total Metals (mg/kg)</b>											
Beryllium, Total	0.47 J	0.74 J	0.48	0.36	0.15 J	0.23 J	0.16 J	0.25	0.24	22	410
Chromium, Total	15 J	22 J	16	11	5.3	7.7 J	6.6 J	8.7	8	21	690
Iron, Total	14000 J	19000 J	16000	11000 J+	5700 J+	8900 J-	5900 J-	7200 J+	6700 J+	15000 / 15900	--
Lead, Total	28 J	10 J	4.9 B	5.7 J	2 J	2.8 J	2.6 J	5.7 J	3.9 J	107	700
Manganese, Total	480 J	250 J	260	110 J	940 J	150 J	300 J	260 J	220 J	630 / 636	4100
Mercury, Total	0.15	0.051	0.035	0.015 J	0.018 J	0.013 J	ND	ND	ND	0.89	0.1
Nickel, Total	14 J	18 J	14	9.1	25	8.7 J-	8.2 J-	6.3	5.5	100	4100
<b>TCLP Metals (mg/l)</b>											
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	--
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	--
Iron, TCLP	0.27	2	0.23	0.29	1.2	0.4	0.35	0.39	0.36	5	--
Lead, TCLP	ND	ND	ND	ND	0.0075	ND	ND	0.014 J	ND	0.0075	--
Manganese, TCLP	0.91	0.066	ND	0.017 J	0.043	0.074	0.63	0.44	0.33	0.15	--
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	--
Nickel, TCLP	0.011 J	0.011 J	ND	ND	ND	ND	0.015 J	ND	ND	0.1	--
<b>SPLP Metals (mg/l)</b>											
Beryllium, SPLP	0.0055	0.0045	0.0054	ND	ND	ND	ND	ND	ND	0.004	--
Chromium, SPLP	0.19	0.16	0.2	0.032	0.054	0.014 J	0.022 J	0.045 J	0.012 J	0.1	--
Iron, SPLP	170 J+	120 J+	150	23	42	7.7 J+	15 J+	34 J	6.9 J	5	--
Lead, SPLP	0.17	0.038	0.038	0.016	0.018	0.011	0.019	0.016 J	0.0082 J	0.0075	--
Manganese, SPLP	1.2	0.43	1.2	0.35	0.73	0.065	0.19	0.36 J	0.065 J	0.15	--
Mercury, SPLP	0.0012	0.0004	0.00042	ND	0.00017 J	ND	ND	0.00011 J	ND	0.002	--
Nickel, SPLP	0.13	0.078	0.15	0.024 J	0.043	ND	0.014 J	0.025	ND	0.1	--

Field Sample ID	VL1-3(6-10)-040814	VL1-4(0-6)-040814	VL1-4(6-10)-040814	VL1-5(0-6)-040814	VL1-5(6-10)-040814	VL1-6(0-5)-040814	VL1-6(5-10)-040814	VL1-7(0-5)-040814	VL1-7(5-10)-040814	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-3	VL1-4	VL1-4	VL1-5	VL1-5	VL1-6	VL1-6	VL1-7	VL1-7		
Depth	6 - 10	0 - 6	6 - 10	0 - 6	6 - 10	0 - 5	5 - 10	0 - 5	5 - 10		
Parameter											
Laboratory pH	7.87	8.1	8.11	7.87	7.43	7	7.17	7.24	7.32	<6.25,>9.0	--
<b>Total Metals (mg/kg)</b>											
Iron, Total	9700 J+	7100 J+	5700 J+	6400 J+	7900 J+	6300 J+	11000 J+	8000 J+	4100 J+	15000 / 15900	--
Lead, Total	3.9 J	5.6 J	1.9 J	2.6 J	2.4 J	1.9 J	3.8 J	2.9 J	1.2 J	107	700
Manganese, Total	66 J	720 J	70 J	98 J	130 J	84 J	370 J	92 J	66 J	630 / 636	4100
<b>TCLP Metals (mg/l)</b>											
Iron, TCLP	2.2	1.3	1.7	0.86	1.7	0.66	1.1	0.53	0.56	5	--
Lead, TCLP	0.013	ND	0.0091	ND	ND	ND	ND	ND	ND	0.0075	--
Manganese, TCLP	0.029	0.076	0.14	0.31	0.25	0.039	0.11	0.043	0.15	0.15	--
<b>SPLP Metals (mg/l)</b>											
Iron, SPLP	27	20	49	7.5	71	16	21	9.2	1.3	5	--
Lead, SPLP	0.014	0.0087	0.015	0.0085	0.024	0.011	0.011	0.011	0.0076	0.0075	--
Manganese, SPLP	0.093	0.26	0.28	0.096	1.1	0.21	0.2	0.076	0.02 J	0.15	--

FIGURE 4-1d



750 E. Bunker Ct.  
Suite 500  
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60061

INVESTIGATION RESULTS  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3003+00 TO 3018+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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Field Sample ID	VL1-8(0-5)-040814	VL1-8(0-5)-040814D	VL1-8(5-10)-040814	VL1-9(0-5)-040814	VL1-9(5-10)-040814	VL1-9(5-10)-040814D	VL1-10(0-5)-040914	VL1-10(5-10)-040914	VL1-11(0-5)-040814	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/9/2014	4/9/2014	4/8/2014		
Location ID	VL1-8	VL1-8	VL1-8	VL1-9	VL1-9	VL1-9	VL1-10	VL1-10	VL1-11		
Depth	0 - 5	0 - 5	5 - 10	0 - 5	5 - 10	5 - 10	0 - 5	5 - 10	0 - 5		
Parameter											
Laboratory pH	6.95	6.64	6.88	8.54	8.54	8.58	8.05	7.46	8.09	<6.25,>9.0	---
<b>PCBs (ug/kg)</b>											
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND	1900	1000	1000
<b>SVOCs (ug/kg)</b>											
Benzo(a)anthracene	2200 J	230 J	ND	110	36 J	100 J	180	ND	1100	900 / 1100 / 1800	170000
Benzo(a)pyrene	1600 J	180 J	ND	95	43 J	74 J	200	ND	890	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	2000 J	270 J	ND	130	51 J	92 J	310	ND	1400	900 / 1500 / 2100	170000
Dibenzo(a,h)anthracene	370 J	20 J	ND	ND	29 J	13 J	ND	ND	330	90 / 200 / 420	17000
<b>Total Metals (mg/kg)</b>											
Arsenic, Total	1.7 J	1.8 J	1.4 J	6.8 J	2.8 J	3.5 J	14 J	1.4 J	6.1 J	11.3 / 13	61
Iron, Total	7300 J+	7700 J+	6500 J+	52000 J-	7900 J-	10000 J-	30000 J	14000 J	31000 J	15000 / 15900	---
Lead, Total	12 J	7.4 J	2.2 J	58 J	15 J	12 J	30 J	6.3 J	90 J	107	700
Manganese, Total	240 J	540 J	64 J	470 J	160 J	120 J	980 J	790 J	1500 J	630 / 636	4100
Mercury, Total	0.019 J	0.17 J	ND	0.24 J	ND	0.057 J	0.05	0.034	0.098 J	0.89	0.1
Selenium, Total	0.25 J	ND	ND	0.72 J-	0.43 J	0.61 J-	ND	ND	1.6 J-	1.3	1000
<b>TCLP Metals (mg/l)</b>											
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---
Iron, TCLP	ND	ND	1.8	ND	ND	ND	ND	0.22	ND	5	---
Lead, TCLP	0.0096	ND	0.01	ND	ND	ND	ND	0.0076	ND	0.0075	---
Manganese, TCLP	2.5	2.5	0.083	0.85	1.5	1.3	2.6	54	0.84	0.15	---
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	---
Selenium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---
<b>SPLP Metals (mg/l)</b>											
Arsenic, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---
Iron, SPLP	11 J	22 J	22	23 J+	18 J+	11 J+	2.4 J+	19 J+	2.8 J+	5	---
Lead, SPLP	0.032	0.026	0.014	0.074	0.04	0.03	0.0079	0.013	0.022	0.0075	---
Manganese, SPLP	0.11	0.13	0.16	0.27	0.16	0.14	0.095	0.65	ND	0.15	---
Mercury, SPLP	ND	0.00011 J	ND	ND	ND	ND	ND	ND	ND	0.002	---
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---

Field Sample ID	VL1-11(5-8)-040814	VL1-12(0-5)-040814	VL2-1(0-5.5)-040714	VL2-2(0-5.5)-040714	VL2-3(0-5.5)-040714	VL2-3(0-5.5)-040714D	VL2-4(0-5.5)-040714	VL2-5(0-5.5)-040814	VL2-6(0-5.5)-040814	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/8/2014	4/8/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/8/2014	4/8/2014		
Location ID	VL1-11	VL1-12	VL2-1	VL2-2	VL2-3	VL2-3	VL2-4	VL2-5	VL2-6		
Depth	5 - 8	0 - 5	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5.5		
Parameter											
Laboratory pH	8.02	7.15	7.42	7.58	8.15	8.25	8.06	7.92	5.1	<6.25,>9.0	---
<b>SVOCs (ug/kg)</b>											
Benzo(a)anthracene	280	1200	150	ND	28 J	29 J	1700	140	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	230	940	130	ND	22 J	37	1500	120	ND	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	410	1200	170	ND	28 J	43	2000	170	ND	900 / 1500 / 2100	170000
Dibenzo(a,h)anthracene	63	250	30 J	ND	ND	27 J	300	31 J	ND	90 / 200 / 420	17000
<b>Total Metals (mg/kg)</b>											
Arsenic, Total	4.2 J	21 J	6.9 J	4.7 J	4.3 J	4.4 J	5 J	3 J	3.9 J	11.3 / 13	61
Chromium, Total	13	17	14 J+	23 J+	14 J+	12 J+	11 J+	14 J+	33 J+	21	690
Iron, Total	15000 J	130000 J	16000 J	19000 J	15000 J	12000 J	17000 J	13000 J	23000 J	15000 / 15900	---
Lead, Total	67 J	130 J	80 J	7.8 J	32 J	27 J	74 J	9.7 J	6.4 J	107	700
Manganese, Total	370 J	620 J	460	400	720	520	290	240	230	630 / 636	4100
Mercury, Total	0.72 J	0.94 J	0.13 J	0.048 J	0.03 J	0.029 J	0.23 J	0.021 J	0.025 J	0.89	0.1
Selenium, Total	0.92 J-	3.5 J-	0.23 J	0.33 J	ND	0.28 J	0.26 J	0.21 J	0.23 J	1.3	1000
<b>TCLP Metals (mg/l)</b>											
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	---
Iron, TCLP	ND	1.6 B	ND	ND	ND	ND	ND	ND	ND	5	---
Lead, TCLP	ND	0.037	ND	ND	ND	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.013 J	4.1	0.97	0.067	0.28	0.25	3.2	0.34	0.13	0.15	---
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	---
Selenium, TCLP	0.01 J	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---
<b>SPLP Metals (mg/l)</b>											
Arsenic, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---
Chromium, SPLP	0.021 J	ND	ND	ND	ND	ND	ND	ND	ND	0.1	---
Iron, SPLP	14 J+	0.33 J+	0.23	2.2	0.55	0.78	0.77	0.76	0.91	5	---
Lead, SPLP	0.056	0.0085	ND	0.01	ND	ND	0.017	0.0094	ND	0.0075	---
Manganese, SPLP	0.18 B	0.16 B	ND	0.091	0.019 J	0.019 J	0.038	0.025	0.021 J	0.15	---
Mercury, SPLP	0.00016 J	ND	ND	0.00026	ND	ND	ND	ND	ND	0.002	---
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	---

FIGURE 4-1e



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

INVESTIGATION RESULTS  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3003+00 TO 3018+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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Field Sample ID	VL2-7(0-5.5)-040814	VL2-8(0-5)-040814	VL2-8(5-10)-040814	VL2-8(5-10)-040814D	VL2-9(0-5)-040714	VL2-9(5-10)-040714	VL2-10(0-5)-040714	VL2-10(5-10)-040714	WI-1(0-5.5)-040714	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	VL2-7	VL2-8	VL2-8	VL2-8	VL2-9	VL2-9	VL2-10	VL2-10	WI-1		
Depth	0 - 5.5	0 - 5	5 - 10	5 - 10	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5.5		
Parameter											
Laboratory pH	7.63	8.34	7.81	7.9	7.95	7.97	8.31	8.36	7.94	<6.25,>9.0	--
<b>SVOCs (ug/kg)</b>											
Benzo(a)pyrene	37 J	230	260 J-	280	200	10 J	ND	ND	42	90 / 1300 / 2100	17000
<b>Total Metals (mg/kg)</b>											
Antimony, Total	ND	ND	9.2 J-	0.66 J	0.44 J	ND	ND	ND	ND	5	82
Cadmium, Total	0.62 J	1.1 J	1.5 J	1.8	0.74	0.51	0.28 J	0.47 J	0.59	5.2	200
Chromium, Total	27	13 J+	13	12	11	18	14 J+	12 J+	15	21	690
Iron, Total	23000 J	15000 J	22000 J	19000	16000	16000	14000 J	14000 J	15000	15000 / 15900	--
Lead, Total	11 J	33 J	110 J	46	140 B	12 B	6.8 J	5.3 J	28 B	107	700
Manganese, Total	360 J	330	1000 J	480 B	300	590	260	180	430	630 / 636	4100
Nickel, Total	24	14 J	13	12	11	21	10 J	10 J	15	100	4100
<b>TCLP Metals (mg/l)</b>											
Cadmium, TCLP	ND	ND	0.0031 J	0.0033 J	0.0083	ND	ND	ND	ND	0.005	--
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	--
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	--
Lead, TCLP	0.0088	ND	0.0088	ND	0.18	ND	ND	ND	ND	0.0075	--
Manganese, TCLP	0.43	0.022 J	7.3	8.7	1.1	0.067	0.42	0.47	0.12	0.15	--
Nickel, TCLP	0.015 J	ND	0.018 J	0.02 J	0.021 J	ND	ND	ND	ND	0.1	--
<b>SPLP Metals (mg/l)</b>											
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	--
Chromium, SPLP	ND	ND	0.017 J	0.012 J	0.019 J	ND	ND	ND	ND	0.1	--
Iron, SPLP	3.4 J+	1.6	10 J	4.3	1.2	0.38	0.88	0.34	0.81	5	--
Lead, SPLP	0.011	0.026	0.019	0.017	0.14	ND	ND	ND	0.037	0.0075	--
Manganese, SPLP	ND	0.074	0.22 B	0.16 B	0.23	0.014 J	0.046	ND	0.038	0.15	--
Nickel, SPLP	ND	ND	0.012 J	ND	0.48	ND	ND	ND	ND	0.1	--

Field Sample ID	WP-1(0-4.9)-040714	WP-1(0-4.9)-040714D	WP-2(0-4.9)-040714	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/7/2014	4/7/2014	4/7/2014		
Location ID	WP-1	WP-1	WP-2		
Depth	0 - 4.9	0 - 4.9	0 - 4.9		
Parameter					
Laboratory pH	8.19	8.43	8.48	<6.25,>9.0	--
<b>SVOCs (ug/kg)</b>					
Benzo(a)pyrene	260	170 J	58	90 / 1300 / 2100	17000
Dibenzo(a,h)anthracene	94 J	ND	14 J	90 / 200 / 420	17000
<b>Total Metals (mg/kg)</b>					
Cadmium, Total	0.5	1.1	0.68	5.2	200
Iron, Total	11000	16000	13000	15000 / 15900	--
Lead, Total	65 B	98 B	43 B	107	700
Manganese, Total	250	380	400	630 / 636	4100
Mercury, Total	0.62	0.34	0.31	0.89	0.1
<b>TCLP Metals (mg/l)</b>					
Cadmium, TCLP	0.0053	0.0063	0.005 U	0.005	--
Iron, TCLP	ND	U	0.2 U	5	--
Lead, TCLP	0.04	0.039	0.0075 U	0.0075	--
Manganese, TCLP	6.7	3.3	0.63	0.15	--
Mercury, TCLP	ND	U	0.0002 U	0.002	--
<b>SPLP Metals (mg/l)</b>					
Cadmium, SPLP	ND	U	0.005 U	0.005	--
Iron, SPLP	3.1	1.4	1.2	5	--
Lead, SPLP	0.052	0.1	0.057	0.0075	--
Manganese, SPLP	0.12	0.12	0.088	0.15	--
Mercury, SPLP	ND	U	0.00026	0.002	--

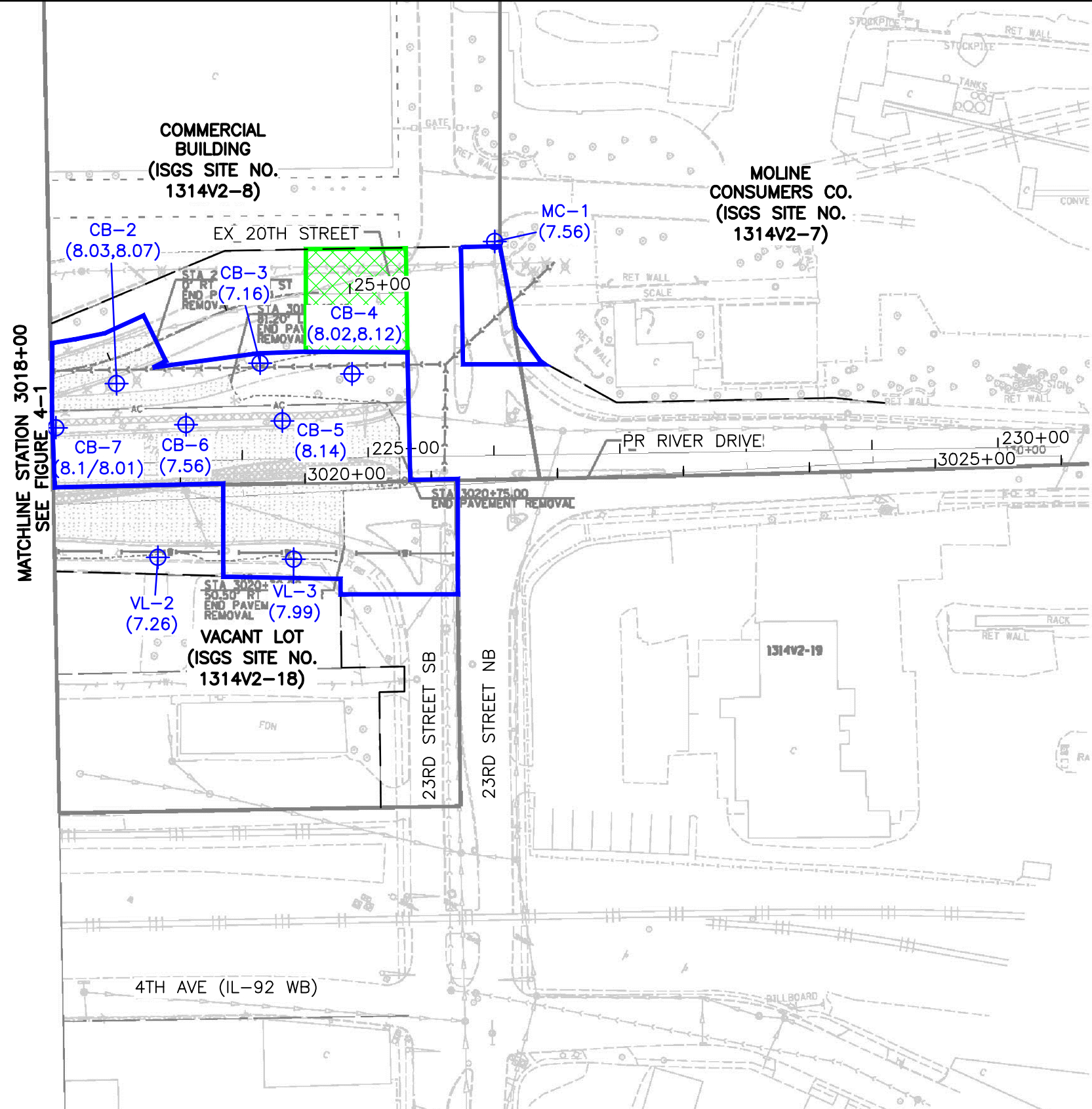
FIGURE 4-1f



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

INVESTIGATION RESULTS  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3003+00 TO 3018+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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MATCHLINE STATION 3018+00  
SEE FIGURE 4-1

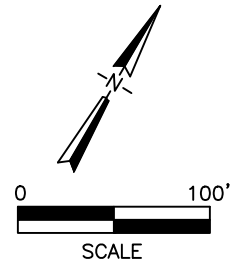


FIGURE 4-2

LEGEND, NOTES AND DATA ARE PRESENTED ON FIGURES 4-2a.



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

EXTENT OF POTENTIALLY IMPACTED SOIL  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3018+00 TO 3025+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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Field Sample ID	CB-2(0-6)-040814	CB-2(6-8)-040814	CB-3(0-6)-040814	CB-4(0-6)-040814	CB-4(6-8)-040814	CB-5(0-2)-040814	CB-6(0-2)-040814	CB-7(0-2)-040814	CB-7(0-2)-040814D	MC-1(0-6)-040814	VL-2(0-5.5)-040914	VL-3(0-5.5)-040914	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/9/2014	4/9/2014		
Location ID	CB-2	CB-2	CB-3	CB-4	CB-4	CB-5	CB-6	CB-7	CB-7	MC-1	VL-2	VL-3		
Depth	0 - 6	6 - 8	0 - 6	0 - 6	6 - 8	0 - 2	0 - 2	0 - 2	0 - 2	0 - 6	0 - 5.5	0 - 5.5		
Parameter														
Laboratory pH	8.03	8.07	7.16	8.02	8.12	8.14	7.56	8.1	8.01	7.56	8.85	7.97	<6.25,>9.0	---
<b>SVOCs (ug/kg)</b>														
Benz(a)pyrene	31 J	18 J	ND	310	29 J	250	560	180	130	ND	ND	200 J	90 / 1300 / 2100	17000
Dibenz(a,h)anthracene	26 J	ND	ND	63	ND	67	110	54	44	ND	ND	46 J	90 / 200 / 420	17000
<b>Total Metals (mg/kg)</b>														
Cadmium, Total	0.51 J	0.072 J	0.17 J	0.71 J	0.26 J	0.61 J	0.74 J	0.38 J	0.46 J	0.11 J	0.19	0.2	5.2	200
Chromium, Total	8.2	4.7	11	13	9.5	14	15	13	13	9.1	23	17	21	690
Iron, Total	8900 J	4900 J	10000 J	21000 J	11000 J	15000 J	15000 J	12000 J	12000 J	7500 J	19000	20000	15000 / 15900	---
Lead, Total	16 J	4.9 J	3.5 J	80 J	4.8 J	50 J	88 J	38 J	46 J	3.6 J	7.3 B	57 B	107	700
Manganese, Total	340 J	79 J	200 J	340 J	170 J	420 J	370 J	270 J	320 J	170 J	550	260	630 / 636	4100
Mercury, Total	0.02 J	ND	0.011 J	0.087 J	ND	0.14 J	0.24 J	ND	0.29 J	0.013 J	0.023	0.18	0.89	0.1
<b>TCLP Metals (mg/l)</b>														
Cadmium, TCLP	ND	ND	ND	ND	ND	0.0021 J	0.0032 J	ND	0.0024 J	ND	ND	0.0068	0.005	---
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.01 J	ND	ND	ND	ND	ND	0.1	---
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7 B	0.83	0.36	5	---
Lead, TCLP	0.0079	ND	ND	ND	ND	ND	0.011	0.0098	ND	ND	ND	1.4	0.0075	---
Manganese, TCLP	0.23	0.34	0.21	0.011 J	1.3	0.11	0.19	0.16 J	0.75 J	0.078	ND	4.1 B	0.15	---
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	---
<b>SPLP Metals (mg/l)</b>														
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.03	0.011 J	0.033	0.035	0.016 J	0.026	0.027	0.033	0.024 J	0.019 J	0.017 J	0.013 J	0.1	---
Iron, SPLP	25 J+	1.8 J+	23 J+	21 J+	7.4 J+	17 J+	13 J+	20 J	11 J	12 J+	8.8	7.1	5	---
Lead, SPLP	0.029	0.017	0.015	0.033	0.014	0.037	0.047	0.046	0.032	ND	0.0078	0.22	0.0075	---
Manganese, SPLP	0.24 B	ND	0.25 B	0.18 B	0.068 B	0.17 B	0.13 B	0.17 B	0.11 B	0.11 B	0.064	0.11	0.15	---
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.00013 J	ND	0.00022	ND	0.00016 J	0.002	---

**LEGEND**

— — — EXISTING R.O.W.

— - - - - PROPOSED R.O.W.

⊕ SOIL BORING LOCATION

(X.XX/X.XX) SOIL SAMPLE pH VALUES. A / REPRESENTS A SOIL SAMPLE AND DUPLICATE SOIL SAMPLE pH VALUES. RED INDICATES A pH VALUE EITHER LESS THAN 6.25 S.U. OR GREATER THAN 9.0 S.U.

□ CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. SOIL MAY BE MANAGED TO A CCDD OR UNCONTAMINATED SOIL FILL OPERATION WITHIN A MSA COUNTY OR CHICAGO CORPORATE LIMITS.

▤ ACQUISITION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS. ANY EXCAVATED MATERIAL SHOULD BE MANAGED AS A NON-SPECIAL WASTE.

**NOTES:**

1. ORGANIC SOIL REFERENCE CONCENTRATIONS (RC) INCLUDE THE MOST STRINGENT VALUES FROM THE MAC TABLE. THE SECOND AND THIRD RC, AS APPLICABLE, ARE THE CHICAGO CORPORATE LIMIT, AND MSA COUNTY EXCLUDING CHICAGO VALUES FROM THE MAC TABLE.
2. INORGANIC SOIL REFERENCE CONCENTRATIONS (RC) INCLUDE THE MOST STRINGENT VALUES FROM THE MAC TABLE. THE SECOND RC, AS APPLICABLE, IS THE MSA COUNTY VALUE FROM THE MAC TABLE.
3. ONLY SAMPLES AND PARAMETERS WITH EXCEEDANCES IMPACTING CONSTRUCTION ACTIVITIES ARE PRESENTED ON THIS FIGURE: SEE TABLES 4-2 AND 4-3 AND APPENDIX C FOR ALL DATA.
4. YELLOW IN THE TABLE INDICATES CONCENTRATION EXCEEDS THE REFERENCE CONCENTRATION FOR SOIL.
5. BLUE IN THE TABLE INDICATES CONCENTRATION EXCEEDS THE REMEDIATION OBJECTIVES FOR CONSTRUCTION WORKERS.

FIGURE 4-2a



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

**INVESTIGATION RESULTS**  
FAI 74: I-74 FROM 19TH STREET TO 23RD STREET  
STATION 3018+00 TO 3025+00  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

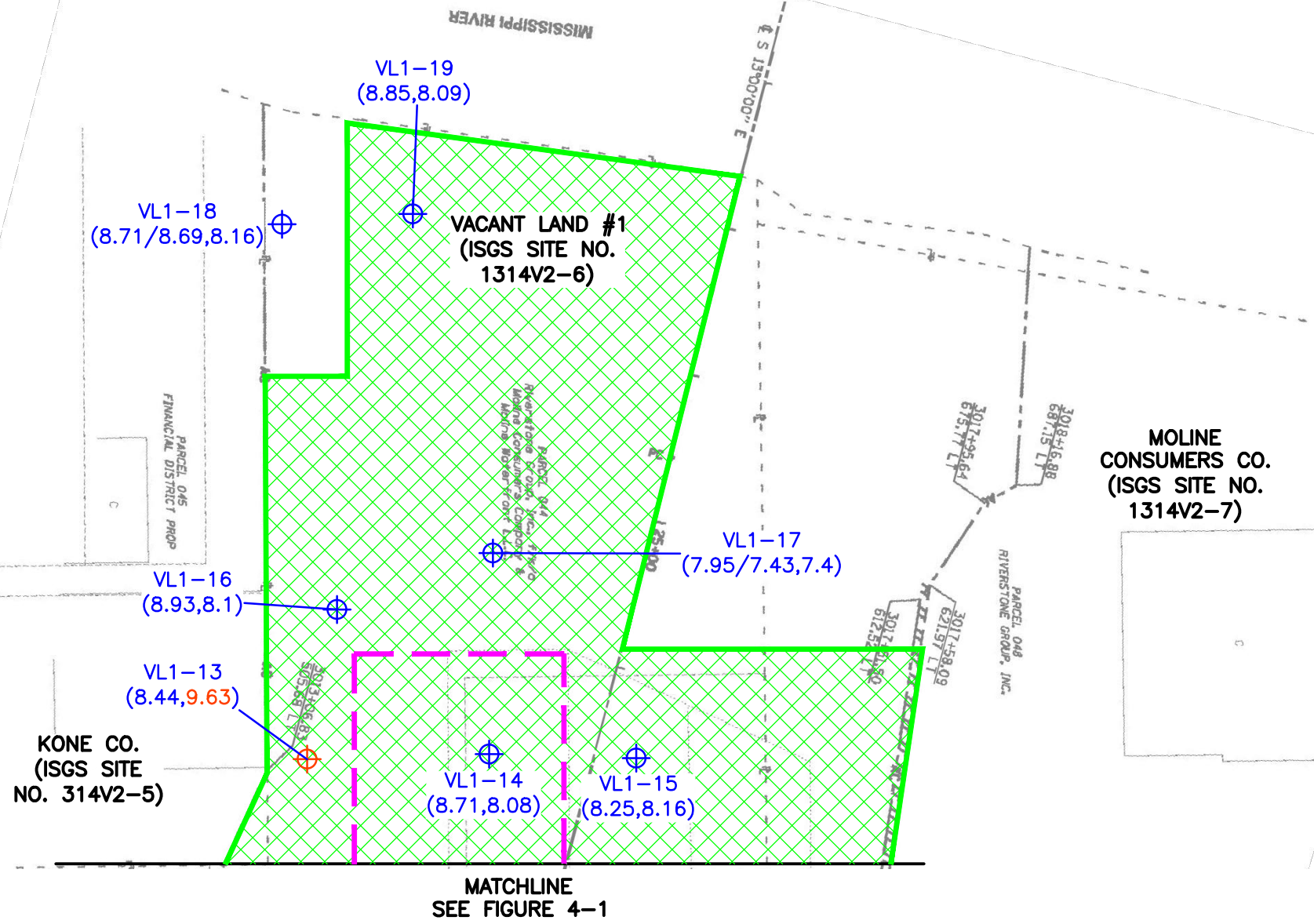


FIGURE 4-3

LEGEND, NOTES AND DATA ARE PRESENTED ON FIGURES 4-3a AND 4-3b.



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

EXTENT OF POTENTIALLY IMPACTED SOIL  
ACQUISITION AREAS NORTH OF RIVER ROAD  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois



Field Sample ID	VL1-13(0-5)-040914	VL1-13(5-10)-040914	VL1-14(0-5)-040914	VL1-14(5-7)-040914	VL1-15(0-5)-040914	VL1-15(5-7)-040914	VL1-16(0-5)-040914	VL1-16(5-10)-040914	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-13	VL1-13	VL1-14	VL1-14	VL1-15	VL1-15	VL1-16	VL1-16		
Depth	0 - 5	5 - 10	0 - 5	5 - 7	0 - 5	5 - 7	0 - 5	5 - 10		
Parameter										
Laboratory pH	8.44	9.63	8.71	8.08	8.25	8.16	8.93	8.1	<6.25,>9.0	--
<b>SVOCs (ug/kg)</b>										
Benzo(a)anthracene	ND	2000	31000 J-	1600	68	230	3000	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	ND	2300	38000 J-	1600	62	180	2500	ND	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	ND	3400	38000 J-	2000	88	280	4200	ND	900 / 1500 / 2100	170000
Benzo(k)fluoranthene	ND	1200	25000 J-	1000	32 J	120	1300	ND	9000	1700000
Carbazole	ND	200	3300 J-	ND	ND	ND	510	ND	600	6200000
Dibenzo(a,h)anthracene	ND	600	4200 J-	190	ND	26 J	730	ND	90 / 200 / 420	17000
Indeno(1,2,3-cd)pyrene	ND	1300	15000 J	770	33 J	97	1500	ND	900 / 900 / 1600	170000
<b>Total Metals (mg/kg)</b>										
Cadmium, Total	0.43 J-	0.093 J	0.37 J	0.24	0.88	0.47	0.39 J-	0.28 J-	5.2	200
Chromium, Total	12 J	5.4 J	25	8.9	18	19	12 J	18 J	21	690
Iron, Total	23000 J	5200 J	21000	9400	24000	20000	17000 J	20000 J	15000 / 15900	--
Lead, Total	7.7 J	8.2 J	62 B	11 B	110 B	61 B	30 J	8.6 J	107	700
Manganese, Total	920 J	280 J	1400	530	380	250	1800 J	440 J	630 / 636	4100
Mercury, Total	0.022	0.43	0.053	0.027	0.41	0.39	0.012 J	0.032	0.89	0.1
Selenium, Total	ND	ND	1.9 J	ND	0.31 J	ND	ND	0.3 J	1.3	1000
<b>TCLP Metals (mg/l)</b>										
Cadmium, TCLP	ND	0.0025 J	0.0022 J	0.0021 J	0.006	0.0023 J	0.0068	ND	0.005	--
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.1	--
Iron, TCLP	ND	ND	0.47	ND	0.4	0.52	ND	1.1	5	--
Lead, TCLP	ND	ND	ND	ND	1.3	0.019	ND	0.012	0.0075	--
Manganese, TCLP	1.1	1	1.5 B	1.7 B	0.87 B	0.27 B	0.76	7.6	0.15	--
Mercury, TCLP	ND	0.00012 J	ND	ND	ND	ND	ND	ND	0.002	--
Selenium, TCLP	ND	ND	ND	0.011 J	ND	ND	ND	ND	0.05	--
<b>SPLP Metals (mg/l)</b>										
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.005	--
Chromium, SPLP	0.013 J	ND	0.015 J	0.011 J	0.019 J	0.013 J	0.033	0.012 J	0.1	--
Iron, SPLP	7.7 J+	ND	6.8	5	10	6.6	24 J+	9.5 J+	5	--
Lead, SPLP	0.0078	ND	0.042	0.011	0.11	0.054	0.019	0.013	0.0075	--
Manganese, SPLP	0.06	ND	0.1	0.081	0.082	0.11	0.21	1.2	0.15	--
Mercury, SPLP	ND	ND	ND	ND	0.0002	0.00051	ND	0.00018 J	0.002	--
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.05	--

**LEGEND**

— — — EXISTING R.O.W.

— - - - - PROPOSED R.O.W.

⊕ SOIL BORING LOCATION

(X.XX/X.XX) SOIL SAMPLE pH VALUES. A / REPRESENTS A SOIL SAMPLE AND DUPLICATE SOIL SAMPLE pH VALUES. RED INDICATES A pH VALUE EITHER LESS THAN 6.25 S.U. OR GREATER THAN 9.0 S.U.

 ACQUISITION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS. MATERIAL SHOULD BE MANAGED AS A NON-SPECIAL WASTE.

 APPROXIMATE AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKER REFERENCE CONCENTRATIONS

FIGURE 4-3a



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

EXTENT OF POTENTIALLY IMPACTED SOIL  
ACQUISITION AREAS NORTH OF RIVER ROAD  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

Field Sample ID	VL1-17(0-5)-040914	VL1-17(0-5)-040914D	VL1-17(5-9)-040914	VL1-18(0-5)-040914	VL1-18(0-5)-040914D	VL1-18(5-10)-040914	VL1-19(0-5)-040914	VL1-19(5-10)-040914	Soil Reference Concentrations	Soil Remediation Objectives for Construction Workers
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-17	VL1-17	VL1-17	VL1-18	VL1-18	VL1-18	VL1-19	VL1-19		
Depth	0 - 5	0 - 5	5 - 9	0 - 5	0 - 5	5 - 10	0 - 5	5 - 10		
Parameter										
Laboratory pH	7.95	7.43	7.4	8.71	8.69	8.16	8.85	8.09	<6.25,>9.0	--
<b>SVOCs (ug/kg)</b>										
Benzo(a)pyrene	63	85	ND	27 J	ND	37	500	42	90 / 1300 / 2100	17000
Dibenzo(a,h)anthracene	31 J	32 J	ND	ND	ND	15 J	140	ND	90 / 200 / 420	17000
<b>Total Metals (mg/kg)</b>										
Cadmium, Total	1.4	1.5	0.13 J	0.27 J-	0.25 J-	0.062 J	0.3 J-	0.15 J-	5.2	200
Chromium, Total	19	22	5.8	12 J	12 J	52 J	33 J	25 J	21	690
Iron, Total	130000	100000	10000	12000 J	11000 J	15000 J	12000 J	13000 J	15000 / 15900	--
Lead, Total	40 B	45 B	9.5 B	6.9 J	6 J	10 J	9.8 J	13 J	107	700
Manganese, Total	1900 J	580 J	270	360 J	310 J	960 J	300 J	170 J	630 / 636	4100
Mercury, Total	0.28	0.23	0.03	0.018	0.024	0.012 J	0.011 J	0.01 J	0.89	0.1
Nickel, Total	24	20	7.4	13 J	12 J	7.1 J	31 J	38 J	100	4100
<b>TCLP Metals (mg/l)</b>										
Cadmium, TCLP	0.0099	0.0081	ND	ND	ND	ND	0.0031 J	ND	0.005	--
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.1	--
Iron, TCLP	ND	0.37	ND	0.3	ND	ND	ND	4.9	5	--
Lead, TCLP	0.0084	ND	ND	ND	ND	ND	ND	ND	0.0075	--
Manganese, TCLP	6.4 B	5.5 B	3.9 B	0.23	0.26	0.78	0.55	1.7	0.15	--
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.002	--
Nickel, TCLP	0.056	0.047	0.018 J	ND	ND	0.034	0.015 J	0.11	0.1	--
<b>SPLP Metals (mg/l)</b>										
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.005	--
Chromium, SPLP	0.019 J	0.012 J	ND	0.016 J	0.015 J	ND	0.02 J	ND	0.1	--
Iron, SPLP	11	9.2	2.2	9 J+	10 J+	0.81 J+	10 J+	0.58 J+	5	--
Lead, SPLP	0.027	0.022	0.011	0.0083	0.0082	ND	0.0097	ND	0.0075	--
Manganese, SPLP	0.17	0.13	0.12	0.057	0.081	0.015 J	0.059	0.029	0.15	--
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.002	--
Nickel, SPLP	0.014 J	0.01 J	ND	ND	0.01 J	ND	0.013 J	ND	0.1	--

**NOTES:**

- ORGANIC SOIL REFERENCE CONCENTRATIONS (RC) INCLUDE THE MOST STRINGENT VALUES FROM THE MAC TABLE. THE SECOND AND THIRD RC, AS APPLICABLE, ARE THE CHICAGO CORPORATE LIMIT, AND MSA COUNTY EXCLUDING CHICAGO VALUES FROM THE MAC TABLE.
- INORGANIC SOIL REFERENCE CONCENTRATIONS (RC) INCLUDE THE MOST STRINGENT VALUES FROM THE MAC TABLE. THE SECOND RC, AS APPLICABLE, IS THE MSA COUNTY VALUE FROM THE MAC TABLE.
- ONLY SAMPLES AND PARAMETERS WITH EXCEEDANCES IMPACTING CONSTRUCTION ACTIVITIES ARE PRESENTED ON THIS FIGURE: SEE TABLES 4-2 AND 4-3 AND APPENDIX C FOR ALL DATA.
- YELLOW IN THE TABLE INDICATES CONCENTRATION EXCEEDS THE REFERENCE CONCENTRATION FOR SOIL.
- BLUE IN THE TABLE INDICATES CONCENTRATION EXCEEDS THE REMEDIATION OBJECTIVES FOR CONSTRUCTION WORKERS.
- GREEN IN THE TABLE INDICATES CONCENTRATION EXCEEDS BOTH THE REFERENCE CONCENTRATION FOR SOIL THE REMEDIATION OBJECTIVES FOR CONSTRUCTION WORKERS.

Sample Location/Depth Interval	Head Space Reading (Units Above Background)
VL1-17: 2.4 to 3.0 m (8.0 to 10.0 ft) bgs	25

FIGURE 4-3b



750 E. Bunker Ct.  
Suite 500  
Vernon Hills, Illinois  
60061

EXTENT OF POTENTIALLY IMPACTED SOIL  
ACQUISITION AREAS NORTH OF RIVER ROAD  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
Moline, Rock Island County, Illinois

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**Table 4-1  
Field Observations and Sampling Rationale  
Illinois Department of Transportation  
FAI 74: Interstate 74 from 19th Street to 23rd Street  
Moline, Rock Island County, Illinois**

Site	Boring Station Location <sup>1</sup>	Boring Depth		Construction Activity/Property Acquisition	Maximum Depth of Construction		Headspace Screening OVM units	Max. Headspace Depth		Soil Sample Depth <sup>2</sup>		Comments
		meters	feet		meters	feet		meters	feet	meters	feet	
<b>City of Moline (ISGS Site No. 1314V2-4)</b>												
WP-1	STA 1893+52, 7.3 m (24 ft) RT of 19th Street CL.	1.5	5.0	Sanitary sewer reconstruction.	1.5	4.9	BG	na	na	0 - 1.5	0 - 4.9	
WP-2	STA 1894+17, 9.1 m (30 ft) RT of 19th Street CL.	1.5	5.0	Sanitary sewer reconstruction.	1.5	4.9	BG	na	na	0 - 1.5	0 - 4.9	
<b>Vacant Land No. 1 (ISGS Site No. 1314V2-6)</b>												
VL1-1	STA 3013+58, 52.7 m (173 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL1-2	STA 3013+64, 29.9 m (98 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition, River Drive reconstruction, temporary bike path construction, and sanitary sewer/water main reconstruction.	5.9	19.4	BG	na	na	0 - 1.8 1.8 - 3.0	0 - 6.0 6.0 - 10	Maximum depth of construction was not reached due to refusal.
VL1-3	STA 3014+68, 25.6 m (84 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition, River Drive reconstruction, temporary bike path construction, and sanitary sewer/water main reconstruction.	5.9	19.4	BG	na	na	0 - 1.8 1.8 - 3.0	0 - 6.0 6.0 - 10	Maximum depth of construction was not reached due to refusal.
VL1-4	STA 3015+52, 25.3 m (83 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition, River Drive reconstruction, temporary bike path construction, and sanitary sewer/water main reconstruction.	5.9	19.4	BG	na	na	0 - 1.8 1.8 - 3.0	0 - 6.0 6.0 - 10	Maximum depth of construction was not reached due to refusal.
VL1-5	STA 3016+59, 25.6 m (84 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition, River Drive reconstruction, temporary bike path construction, and sanitary sewer/water main reconstruction.	5.9	19.4	BG	na	na	0 - 1.8 1.8 - 3.0	0 - 6.0 6.0 - 10	Maximum depth of construction was not reached due to refusal.
VL1-6	STA 3016+91, 40.2 m (132 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition, River Drive reconstruction, temporary bike path construction, and sanitary sewer/water main reconstruction.	4.6	15.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	Maximum depth of construction was not reached due to refusal.
VL1-7	STA 3016+11, 47.9 m (157 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	2.1 - 2.7	7.0 - 9.0	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	

Continued on next page

**Table 4-1 (Continued)**  
**Field Observations and Sampling Rationale**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Site	Boring Station Location <sup>1</sup>	Boring Depth		Construction Activity/Property Acquisition	Maximum Depth of Construction		Headspace Screening OVM units	Max. Headspace Depth		Soil Sample Depth <sup>2</sup>		Comments
		meters	feet		meters	feet		meters	feet	meters	feet	
<b>Vacant Land No. 1 (ISGS Site No. 1314V2-6) (Continued)</b>												
VL1-8	STA 3014+72, 49.1 m (161 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL1-9	STA 3009+27, 91.1 m (299 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	4.6	15.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	Maximum depth of construction was not reached due to refusal.
VL1-10	STA 3013+13, 103 m (338 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL1-11	STA 3014+31, 112 m (368 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 2.4	0 - 5.0 5.0 - 8.0	
VL1-12	STA 3015+56, 105 m (346 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5	0 - 5.0	
VL1-13	Located north of River Drive and west of Site 1314V2-7, as shown on Figure 3-3.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL1-14	Located north of River Drive and west of Site 1314V2-7, as shown on Figure 3-3.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 2.1	0 - 5.0 5.0 - 7.0	
VL1-15	Located north of River Drive and west of Site 1314V2-7, as shown on Figure 3-3.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 2.1	0 - 5.0 5.0 - 7.0	
VL1-16	Located north of River Drive and west of Site 1314V2-7, as shown on Figure 3-3.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL1-17	Located north of River Drive and west of Site 1314V2-7, as shown on Figure 3-3.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	25.0	2.7	9.0	0 - 1.5 1.5 - 2.7	0 - 5.0 5.0 - 9.0	Groundwater encountered at 2.7 m (9.0 ft) bgs. Temporary well screened from 0 - 3.0 m (0 - 10 ft) bgs.
VL1-18	Located north of River Drive and west of Site 1314V2-7, as shown on Figure 3-3.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL1-19	Located north of River Drive and west of Site 1314V2-7, as shown on Figure 3-3.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	

Continued on next page

**Table 4-1 (Continued)**  
**Field Observations and Sampling Rationale**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Site	Boring Station Location <sup>1</sup>	Boring Depth		Construction Activity/Property Acquisition	Maximum Depth of Construction		Headspace Screening OVM units	Max. Headspace Depth		Soil Sample Depth <sup>2</sup>		Comments
		meters	feet		meters	feet		meters	feet	meters	feet	
<b>Moline Consumers Co. (ISGS Site No. 1314V2-7)</b>												
MC-1	STA 3021+57, 56.1 m (184 ft) LT of River Drive CL.	3.0	10.0	Sanitary sewer reconstruction.	5.7	18.8	BG	na	na	0 - 1.8	0 - 6.0	Groundwater encountered at 1.8 m (6.0 ft) bgs. Temporary well screened from 0 - 3.0 m (0 - 10 ft) bgs.
<b>Commercial Building (ISGS Site No. 1314V2-8)</b>												
CB-1	STA 3017+66, 14.3 m (47 ft) LT of River Drive CL.	3.0	10.0	Sanitary sewer reconstruction and temporary bike path construction.	6.0	19.7	BG	na	na	0 - 1.8 1.8 - 2.4	0 - 6.0 6.0 - 8.0	Maximum depth of construction was not reached due to refusal.
CB-2	STA 3018+52, 24.4 m (80 ft) LT of River Drive CL.	3.0	10.0	Sanitary sewer reconstruction and temporary bike path construction.	6.0	19.7	BG	na	na	0 - 1.8 1.8 - 2.4	0 - 6.0 6.0 - 8.0	Maximum depth of construction was not reached due to refusal.
CB-3	STA 3019+68, 28.3 m (93 ft) LT of River Drive CL.	3.0	10.0	Sanitary sewer reconstruction and temporary bike path construction.	6.0	19.7	BG	na	na	0 - 1.8	0 - 6.0	Maximum depth of construction was not reached due to refusal.
CB-4	STA 3020+39, 25.6 m (84 ft) LT of River Drive CL.	3.0	10.0	Sanitary sewer reconstruction and temporary bike path construction.	6.0	19.7	BG	na	na	0 - 1.8 1.8 - 2.4	0 - 6.0 6.0 - 8.0	Groundwater encountered at 2.4 m (8.0 ft) bgs. Temporary well screened from 0 - 3.0 m (0 - 10 ft) bgs.
CB-5	STA 3019+83, 14.9 m (49 ft) LT of River Drive CL.	1.5	5.0	River Drive reconstruction and temporary bike path construction.	0.6	2.0	BG	na	na	0 - 0.6	0 - 2.0	
CB-6	STA 3019+06, 14.3 m (47 ft) LT of River Drive CL.	1.5	5.0	River Drive reconstruction and temporary bike path construction.	0.6	2.0	BG	na	na	0 - 0.6	0 - 2.0	
CB-7	STA 3018+01, 17.4 m (57 ft) LT of River Drive CL.	1.5	5.0	River Drive reconstruction and temporary bike path construction.	0.6	2.0	BG	na	na	0 - 0.6	0 - 2.0	
CB-8	STA 3016+46, 112 m (369 ft) LT of River Drive CL.	3.0	10.0	ROW Acquisition area.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	

Continued on next page

**Table 4-1 (Continued)**  
**Field Observations and Sampling Rationale**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Site	Boring Station Location <sup>1</sup>	Boring Depth		Construction Activity/Property Acquisition	Maximum Depth of Construction		Headspace Screening OVM units	Max. Headspace Depth		Soil Sample Depth <sup>2</sup>		Comments
		meters	feet		meters	feet		meters	feet	meters	feet	
<b>State of Illinois IDOT (ISGS Site No. 1314V2-10)</b>												
SR-1	STA 1895+09, 11.6 m (38 ft) LT of 19th Street CL.	3.0	10.0	Sanitary sewer reconstruction.	6.6	21.5	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	Maximum depth of construction was not reached due to refusal.
SR-2	STA 3006+10, 21.3 m (70 ft) LT of River Drive CL.	4.0	13.0	Sanitary sewer reconstruction.	6.6	21.5	BG	na	na	0 - 1.5 1.5 - 3.0 3.0 - 4.0	0 - 5.0 5.0 - 10 10 - 13	Groundwater encountered at 4.0 m (13 ft) bgs. Temporary well screened from 0.9 - 4.0 m (3.0 - 13 ft) bgs.
SR-3	STA 3007+05, 24.7 m (81 ft) LT of River Drive CL.	4.0	13.0	Sanitary sewer reconstruction.	6.6	21.5	BG	na	na	0 - 1.5 1.5 - 3.0 3.0 - 4.0	0 - 5.0 5.0 - 10 10 - 13	Maximum depth of construction was not reached due to refusal.
SR-4	STA 3007+89, 25.3 m (83 ft) LT of River Drive CL.	3.7	12.0	Sanitary sewer reconstruction.	6.6	21.5	BG	na	na	0 - 1.5 1.5 - 3.0 3.0 - 3.7	0 - 5.0 5.0 - 10 10 - 12	Maximum depth of construction was not reached due to refusal.
SR-5	STA 3008+74, 13.1 m (43 ft) LT of River Drive CL.	1.5	5.0	River Drive reconstruction.	1.5	5.0	BG	na	na	0 - 1.5	0 - 5.0	
SR-6	STA 3007+47, 15.2 m (50 ft) LT of River Drive CL.	1.5	5.0	River Drive reconstruction.	1.5	5.0	BG	na	na	0 - 1.5	0 - 5.0	
SR-7	STA 3006+39, 12.2 m (40ft) LT of River Drive CL.	0.9	3.0	River Drive reconstruction.	0.9	3.0	BG	na	na	0 - 0.9	0 - 3.0	
SR-8	STA 3005+66, 11.2 m (37 ft) LT of River Drive CL.	0.9	3.0	River Drive reconstruction.	0.9	3.0	BG	na	na	0 - 0.9	0 - 3.0	
<b>Electrical Substation (ISGS Site No. 1314V2-11)</b>												
ES-1	STA 3009+40, 66.8 m (219 ft) LT of River Drive CL.	3.0	10.0	River Drive reconstruction and sanitary sewer reconstruction.	6.0	19.7	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	Maximum depth of construction was not reached due to refusal.
<b>Spiegel Moving and Storage (ISGS Site No. 1314V2-12)</b>												
SM-1	STA 3009+33, 45.7 m (150 ft) LT of River Drive CL.	3.0	10.0	River Drive reconstruction and sanitary sewer reconstruction.	6.0	19.7	BG	na	na	0 - 1.8 1.8 - 3.0	0 - 6.0 6.0 - 10	Groundwater encountered at 3.0 m (10 ft) bgs. Temporary well screened from 0 - 3.0 m (0 - 10 ft) bgs.
SM-2	STA 3009+36, 12.2 m (40 ft) LT of River Drive CL.	3.7	12.0	River Drive reconstruction and sanitary sewer reconstruction.	6.0	19.7	BG	na	na	0 - 1.8 1.8 - 3.7	0 - 6.0 6.0 - 12	Maximum depth of construction was not reached due to refusal.
SM-3	STA 3010+28, 11.9 m (39 ft) LT of River Drive CL.	3.7	12.0	River Drive reconstruction and sanitary sewer reconstruction.	6.0	19.7	BG	na	na	0 - 1.8 1.8 - 3.7	0 - 6.0 6.0 - 12	Maximum depth of construction was not reached due to refusal.

Continued on next page

**Table 4-1 (Continued)**  
**Field Observations and Sampling Rationale**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Site	Boring Station Location <sup>1</sup>	Boring Depth		Construction Activity/Property Acquisition	Maximum Depth of Construction		Headspace Screening OVM units	Max. Headspace Depth		Soil Sample Depth <sup>2</sup>		Comments
		meters	feet		meters	feet		meters	feet	meters	feet	
<b>Vacant Building (ISGS Site No. 1314V2-13)</b>												
VB-1	STA 3011+11, 11.6 m (38 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition, roadway reconstruction, sanitary sewer/water main reconstruction.	5.7	18.6	BG	na	na	0 - 1.8 1.8 - 3.0	0 - 6.0 6.0 - 10	Maximum depth of construction was not reached due to refusal.
VB-2	STA 3011+92, 12.8 m (42 ft) LT of River Drive CL.	3.8	12.5	Proposed property acquisition, roadway reconstruction, sanitary sewer/water main reconstruction.	5.7	18.6	BG	na	na	0 - 1.8 1.8 - 3.8	0 - 6.0 6.0 - 12.5	Maximum depth of construction was not reached due to refusal.
VB-3	STA 3012+62, 13.4 m (44 ft) LT of River Drive CL.	3.8	12.5	Proposed property acquisition, roadway reconstruction, sanitary sewer/water main reconstruction.	5.7	18.6	BG	na	na	0 - 1.8 1.8 - 3.8	0 - 6.0 6.0 - 12.5	Maximum depth of construction was not reached due to refusal.
VB-4	STA 3012+73, 50.3 m (165 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VB-5	STA 3011+77, 66.1 m (217 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VB-6	STA 3011+01, 48.2 m (158 ft) LT of River Drive CL.	3.0	10.0	Proposed property acquisition investigation.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
<b>Willis Insurance (ISGS Site No. 1314V2-14)</b>												
WI-1	STA 3004+73, 26.8 m (88 ft) RT of River Drive CL.	1.8	6.0	Water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
<b>Parking Lot (ISGS Site No. 1314V2-16)</b>												
PL-1	STA 3005+59, 14.3 m (47 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
PL-2	STA 3006+13, 14.9 m (49 ft) RT of River Drive CL.	2.1	7.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
PL-3	STA 3006+72, 43.6 m (143 ft) RT of River Drive CL.	3.0	10.0	ROW Acquisition area.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	

Continued on next page

**Table 4-1 (Continued)**  
**Field Observations and Sampling Rationale**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Site	Boring Station Location <sup>1</sup>	Boring Depth		Construction Activity/Property Acquisition	Maximum Depth of Construction		Headspace Screening OVM units	Max. Headspace Depth		Soil Sample Depth <sup>2</sup>		Comments
		meters	feet		meters	feet		meters	feet	meters	feet	
<b>Vacant Land No. 2 (ISGS Site No. 1314V2-17)</b>												
VL2-1	STA 3007+31, 16.8 m (55 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL2-2	STA 3008+49, 16.5 m (54 ft) RT of River Drive CL.	2.1	7.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL2-3	STA 3010+01, 17.4 m (57 ft) RT of River Drive CL.	2.1	7.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL2-4	STA 3011+40, 17.1 m (56 ft) RT of River Drive CL.	2.1	7.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL2-5	STA 3012+96, 19.5 m (64 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL2-6	STA 3014+70, 27.1 m (89 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL2-7	STA 3016+35, 23.8 m (78 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL2-8	STA 3013+63, 65.8 m (216 ft) RT of River Drive CL.	3.0	10.0	ROW Acquisition area.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL2-9	STA 3011+50, 64.9 m (213 ft) RT of River Drive CL.	3.0	10.0	ROW Acquisition area.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
VL2-10	STA 3009+48, 57.6 m (189 ft) RT of River Drive CL.	3.0	10.0	ROW Acquisition area.	3.0	10.0	BG	na	na	0 - 1.5 1.5 - 3.0	0 - 5.0 5.0 - 10	
<b>Vacant Lot (ISGS Site No. 1314V2-18)</b>												
VL-1	STA 3017+34, 14.6 m (48 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL-2	STA 3018+82, 17.1 m (56 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	
VL-3	STA 3019+89, 17.7 m (58 ft) RT of River Drive CL.	1.8	6.0	River Drive reconstruction and water main reconstruction.	1.7	5.5	BG	na	na	0 - 1.7	0 - 5.5	

**Notes:**

<sup>1</sup> Locations referenced to proposed centerline (CL) as indicated above. See also Figures 3-1 through 3-3 for boring locations.

<sup>2</sup> - Sampling intervals are based on the soil sampling analyses approach discussed in section 3.2.1 of the Revised Work Plan for this PSI dated March 2014.

BG - Headspace readings indicative of background levels. Background levels are headspace readings of less than 1.0 PID units.

na - not applicable



**Table 4-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	CB-1(0-6)-040814	CB-1(6-8)-040814	CB-2(0-6)-040814	CB-2(6-8)-040814	CB-3(0-6)-040814	CB-4(0-6)-040814	CB-4(6-8)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	CB-1	CB-1	CB-2	CB-2	CB-3	CB-4	CB-4		
Depth	0 - 6	6 - 8	0 - 6	6 - 8	0 - 6	0 - 6	6 - 8		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	ND	na	na	na	na	na	1000	1000
Aroclor-1254	ND	ND	na	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	19 J	ND	ND	120	7.5 J	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	ND	ND	81	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	13 J	ND	85000	---
Anthracene	ND	ND	ND	ND	ND	160	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	34 J	ND	16 J	25 J	ND	440	12 J	900 / 1100 / 1800	170000
Benzo(a)pyrene	35	ND	31 J	18 J	ND	310	29 J	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	48	ND	33 J	27 J	ND	390	27 J	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	27 J	ND	25 J	16 J	ND	210	13 J	2300000	---
Benzo(k)fluoranthene	13 J	ND	ND	ND	ND	200	ND	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	40	ND	18 J	27 J	ND	450	15 J	88000	1.70E+07
Dibenzo(a,h)anthracene	ND	ND	26 J	ND	ND	63	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	46 J	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	63	ND	31 J	49	ND	850	28 J	3100000	8.20E+07
Fluorene	ND	ND	17 J	ND	ND	63	18 J	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	16 J	ND	31 J	ND	ND	140	26 J	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	9.5 J	ND	ND	48	ND	1800	1800
Phenanthrene	28 J	ND	19 J	26 J	ND	920	14 J	210000	---
Pyrene	63	ND	25 J	50	ND	1400	25 J	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	CB-5(0-2)-040814	CB-6(0-2)-040814	CB-7(0-2)-040814	CB-7(0-2)-040814D	CB-8(0-5)-040814	CB-8(5-10)-040814	ES-1(0-5)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	CB-5	CB-6	CB-7	CB-7	CB-8	CB-8	ES-1		
Depth	0 - 2	0 - 2	0 - 2	0 - 2	0 - 5	5 - 10	0 - 5		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	na	ND	ND	ND	1000	1000
Aroclor-1254	na	na	na	na	ND	ND	ND	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	22	120	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	22	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	42	33 J	13 J	19 J	360 J	ND	9.4 J	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	11 J	51	ND	ND	ND	ND	ND	570000	1.20E+08
Acenaphthylene	11 J	15 J	ND	7.5 J	ND	ND	ND	85000	---
Anthracene	39	150	24 J	20 J	71 J	ND	9.6 J	1.20E+07	6.10E+08
Benzo(a)anthracene	290	730	200	150	310 J	ND	53	900 / 1100 / 1800	170000
Benzo(a)pyrene	250	560	180	130	480	ND	51	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	330	680	250	180	520	ND	81	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	200	350	140	110	350 J	ND	45	2300000	---
Benzo(k)fluoranthene	160	410	110 J	63 J	190 J	ND	24 J	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	370	850	260	170	600	ND	60	88000	1.70E+07
Dibenzo(a,h)anthracene	67	110	54	44	ND	ND	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	390	1500	290	240	560	ND	83	3100000	8.20E+07
Fluorene	22 J	52	20 J	19 J	250 J	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	130	240	97	76	370 J	ND	35 J	900 / 900 / 1600	170000
Naphthalene, SVOC	25 J	20 J	8.7 J	9.7 J	190 J	ND	7.2 J	1800	1800
Phenanthrene	200	740	110	94	470	ND	49	210000	---
Pyrene	900	1500	610 J	280 J	1200	ND	83	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	ES-1(5-10)-040814	MC-1(0-6)-040814	PL-1(0-5.5)-040714	PL-2(0-5.5)-040714	PL-3(0-5)-040714	PL-3(5-10)-040714	SM-1(0-6)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/8/2014		
Location ID	ES-1	MC-1	PL-1	PL-2	PL-3	PL-3	SM-1		
Depth	5 - 10	0 - 6	0 - 5.5	0 - 5.5	0 - 5	5 - 10	0 - 6		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	na	na	na	na	na	na	1000	1000
Aroclor-1254	ND	na	na	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	190	ND	10	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	35	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	10 J	21 J	ND	ND	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	85000	---
Anthracene	ND	ND	29 J	38 J	ND	ND	17 J	1.20E+07	6.10E+08
Benzo(a)anthracene	12 J	ND	270	200	ND	ND	130	900 / 1100 / 1800	170000
Benzo(a)pyrene	30 J	ND	360	220	ND	ND	64	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	26 J	ND	620	340	ND	ND	150	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	14 J	ND	280	170	ND	ND	ND	2300000	---
Benzo(k)fluoranthene	ND	ND	240	140	ND	ND	110	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	12 J	ND	370	240	ND	ND	130	88000	1.70E+07
Dibenzo(a,h)anthracene	26 J	ND	97	53	ND	ND	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	24 J	ND	700	550	ND	ND	180	3100000	8.20E+07
Fluorene	ND	ND	ND	14 J	ND	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	30 J	ND	250	160	ND	ND	ND	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	ND	ND	ND	ND	1800	1800
Phenanthrene	ND	ND	220	310	ND	ND	55	210000	---
Pyrene	15 J	ND	660	520	ND	ND	180	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SM-1(6-10)-040814	SM-2(0-6)-040814	SM-2(6-12)-040814	SM-3(0-6)-040814	SM-3(0-6)-040814D	SM-3(6-12)-040814	SR-1(0-5)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/7/2014		
Location ID	SM-1	SM-2	SM-2	SM-3	SM-3	SM-3	SR-1		
Depth	6 - 10	0 - 6	6 - 12	0 - 6	0 - 6	6 - 12	0 - 5		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	na	na	na	na	1000	1000
Aroclor-1254	na	na	na	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	59	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	8.3	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	16 J	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	ND	ND	ND	12 J	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	ND	10 J	85000	---
Anthracene	12 J	10 J	16 J	ND	ND	ND	33 J	1.20E+07	6.10E+08
Benzo(a)anthracene	45	43	63	34 J	47	17 J	140	900 / 1100 / 1800	170000
Benzo(a)pyrene	35 J	43	64	43	55	ND	110	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	52	49	77	53	65	ND	160	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	29 J	25 J	48	27 J	38	17 J	79	2300000	---
Benzo(k)fluoranthene	24 J	19 J	33 J	18 J	29 J	ND	47	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	33 J	44	75	38	56	16 J	160	88000	1.70E+07
Dibenzo(a,h)anthracene	11 J	ND	37 J	27 J	32 J	26 J	36 J	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	67	62	96	53	91	28 J	290	3100000	8.20E+07
Fluorene	ND	ND	22 J	19 J	19 J	19 J	27 J	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	17 J	16 J	47	35 J	40	29 J	70	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	ND	ND	ND	13 J	1800	1800
Phenanthrene	41	42	63	28 J	44	13 J	200	210000	---
Pyrene	62	71	92	45 J	80 J	19 J	280	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SR-1(5-10)-040714	SR-1(5-10)-040714D	SR-2(0-5)-040714	SR-2(5-10)-040714	SR-2(10-13)-040714	SR-3(0-5)-040714	SR-3(5-10)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	SR-1	SR-1	SR-2	SR-2	SR-2	SR-3	SR-3		
Depth	5 - 10	5 - 10	0 - 5	5 - 10	10 - 13	0 - 5	5 - 10		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	na	na	na	na	1000	1000
Aroclor-1254	na	na	na	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	11 J	ND	ND	23 J	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	ND	ND	21 J	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	12 J	ND	85000	---
Anthracene	ND	ND	ND	ND	ND	67	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	ND	ND	66	14 J	ND	250	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	ND	ND	62	15 J	ND	220	ND	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	ND	ND	96	14 J	ND	310	ND	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	13 J	ND	44	ND	ND	140	ND	2300000	---
Benzo(k)fluoranthene	ND	ND	25 J	ND	ND	150	ND	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	ND	ND	76	16 J	ND	300	ND	88000	1.70E+07
Dibenzo(a,h)anthracene	ND	ND	12 J	ND	ND	33 J	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	ND	ND	130	23 J	ND	520	ND	3100000	8.20E+07
Fluorene	ND	ND	ND	ND	ND	20 J	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	ND	ND	33 J	ND	ND	120	ND	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	ND	ND	17 J	ND	1800	1800
Phenanthrene	ND	ND	ND	11 J	ND	300	ND	210000	---
Pyrene	ND	ND	140	23 J	ND	480	ND	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SR-3(10-13)-040714	SR-4(0-5)-040714	SR-4(0-5)-040714D	SR-4(5-10)-040714	SR-4(10-12)-040714	SR-5(0-5)-040714	SR-6(0-5)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	SR-3	SR-4	SR-4	SR-4	SR-4	SR-5	SR-6		
Depth	10 - 13	0 - 5	0 - 5	5 - 10	10 - 12	0 - 5	0 - 5		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	na	na	na	na	1000	1000
Aroclor-1254	na	na	na	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	14	15	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	3 J	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	5.4 J	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	33 J	10 J	16 J	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	12 J	8.7 J	ND	ND	570000	1.20E+08
Acenaphthylene	ND	ND	8.4 J	ND	ND	ND	ND	85000	---
Anthracene	ND	17 J	10 J	22 J	21 J	ND	12 J	1.20E+07	6.10E+08
Benzo(a)anthracene	ND	62	58	95	57	8.8 J	56	900 / 1100 / 1800	170000
Benzo(a)pyrene	ND	50	53	73	53	15 J	47	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	ND	59	84	120	67	14 J	61	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	ND	43	32 J	54	40	ND	19 J	2300000	---
Benzo(k)fluoranthene	ND	38 J	18 J	32 J	31 J	ND	26 J	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	ND	70	53	98	61	ND	50	88000	1.70E+07
Dibenzo(a,h)anthracene	ND	14 J	ND	16 J	ND	ND	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	ND	93	78	150	130	11 J	86	3100000	8.20E+07
Fluorene	ND	ND	ND	11 J	ND	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	ND	27 J	29 J	49	27 J	10 J	27 J	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	11 J	ND	15 J	ND	ND	ND	1800	1800
Phenanthrene	ND	110	49	110	80	ND	55	210000	---
Pyrene	ND	100	91	160	110	14 J	96	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SR-7(0-3)-040714	SR-8(0-3)-040714	VB-1(0-6)-040814	VB-1(6-10)-040814	VB-2(0-6)-040814	VB-2(6-12.5)-040814	VB-3(0-6)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	SR-7	SR-8	VB-1	VB-1	VB-2	VB-2	VB-3		
Depth	0 - 3	0 - 3	0 - 6	6 - 10	0 - 6	6 - 12.5	0 - 6		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	na	na	na	na	1000	1000
Aroclor-1254	na	na	na	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	8 J	ND	ND	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	21 J	ND	ND	ND	ND	ND	ND	570000	1.20E+08
Acenaphthylene	14 J	ND	ND	ND	ND	ND	ND	85000	---
Anthracene	50	26 J	ND	ND	ND	ND	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	280	160	47	ND	28 J	22 J	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	270	170	56	ND	31 J	37	23 J	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	390	230	68	ND	45	41	20 J	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	230	140	37	ND	22 J	23 J	11 J	2300000	---
Benzo(k)fluoranthene	130	120	27 J	ND	21 J	15 J	ND	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	340	190	52	ND	32 J	29 J	ND	88000	1.70E+07
Dibenzo(a,h)anthracene	77	44	34 J	ND	ND	29 J	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	640	390	71	ND	75	64	20 J	3100000	8.20E+07
Fluorene	17 J	8.8 J	19 J	ND	ND	19 J	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	170	120	41	ND	22 J	33 J	25 J	900 / 900 / 1600	170000
Naphthalene, SVOC	12 J	ND	ND	ND	ND	ND	ND	1800	1800
Phenanthrene	290	170	33 J	ND	46	30 J	ND	210000	---
Pyrene	540	350	68	ND	68	48	9.2 J	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VB-3(6-12.5)-040814	VB-4(0-5)-040814	VB-4(5-10)-040814	VB-5(0-5)-040814	VB-5(5-10)-040814	VB-6(0-5)-040914	VB-6(5-10)-040914	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/9/2014	4/9/2014		
Location ID	VB-3	VB-4	VB-4	VB-5	VB-5	VB-6	VB-6		
Depth	6 - 12.6	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5	5 - 10		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	ND	ND	ND	ND	ND	ND	1000	1000
Aroclor-1254	na	ND	ND	ND	ND	ND	ND	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	150 J	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	23	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	85000	---
Anthracene	ND	ND	ND	ND	ND	9.3 J	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	8.7 J	37 J	14 J	19 J	ND	58	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	27 J	45	13 J	15 J	ND	52	ND	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	24 J	54	22 J	28 J	ND	91	ND	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	14 J	ND	ND	ND	ND	25 J	ND	2300000	---
Benzo(k)fluoranthene	ND	49	ND	ND	ND	38 J	ND	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	12 J	66	28 J	21 J	ND	66	ND	88000	1.70E+07
Dibenzo(a,h)anthracene	25 J	ND	ND	ND	ND	ND	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	63 J	ND	2300000	2300000
Fluoranthene	30 J	140	61	46	ND	130	ND	3100000	8.20E+07
Fluorene	18 J	ND	ND	ND	ND	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	27 J	ND	ND	ND	ND	40	ND	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	ND	ND	ND	ND	1800	1800
Phenanthrene	13 J	71	35 J	25 J	ND	86	ND	210000	---
Pyrene	19 J	98	46	42	ND	130	ND	2300000	6.10E+07

See notes on page 4-105



**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL-1(0-5.5)-040914	VL-2(0-5.5)-040914	VL-3(0-5.5)-040914	VL1-1(0-5)-040814	VL1-1(5-10)-040814	VL1-2(0-6)-040814	VL1-2(6-10)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL-1	VL-2	VL-3	VL1-1	VL1-1	VL1-2	VL1-2		
Depth	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5	5 - 10	0 - 6	6 - 10		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	ND	ND	ND	ND	1000	1000
Aroclor-1254	na	na	na	ND	ND	ND	12 J	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	30	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	6.8	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	85000	---
Anthracene	ND	ND	46 J	ND	ND	ND	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	ND	ND	210	ND	ND	ND	11 J	900 / 1100 / 1800	170000
Benzo(a)pyrene	ND	ND	200 J	ND	ND	ND	16 J	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	ND	ND	250	ND	ND	ND	20 J	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	ND	ND	170 J	ND	ND	ND	ND	2300000	---
Benzo(k)fluoranthene	ND	ND	91 J	ND	ND	ND	ND	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	ND	ND	210	ND	ND	ND	14 J	88000	1.70E+07
Dibenzo(a,h)anthracene	ND	ND	46 J	ND	ND	ND	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	ND	ND	330	13 J	ND	ND	22 J	3100000	8.20E+07
Fluorene	ND	ND	ND	ND	ND	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	ND	ND	120 J	ND	ND	ND	ND	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	ND	ND	ND	ND	1800	1800
Phenanthrene	ND	ND	180 J	12 J	ND	ND	13 J	210000	---
Pyrene	ND	ND	420	9.4 J	ND	ND	29 J	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-3(0-6)-040814	VL1-3(0-6)-040814D	VL1-3(6-10)-040814	VL1-4(0-6)-040814	VL1-4(6-10)-040814	VL1-5(0-6)-040814	VL1-5(6-10)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-3	VL1-3	VL1-3	VL1-4	VL1-4	VL1-5	VL1-5		
Depth	0 - 6	0 - 6	6 - 10	0 - 6	6 - 10	0 - 6	6 - 10		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	1000	1000
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	85000	---
Anthracene	ND	ND	ND	ND	ND	ND	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	15 J	ND	ND	8.3 J	ND	ND	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	28 J	10 J	ND	8.2 J	ND	ND	ND	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	37	13 J	9.9 J	12 J	ND	ND	ND	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	19 J	13 J	15 J	14 J	12 J	ND	11 J	2300000	---
Benzo(k)fluoranthene	20 J	ND	ND	ND	ND	ND	ND	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	15 J	ND	ND	ND	ND	ND	ND	88000	1.70E+07
Dibenzo(a,h)anthracene	14 J	7.1 J	ND	ND	ND	ND	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	32 J	9.5 J	ND	13 J	ND	ND	7.2 J	3100000	8.20E+07
Fluorene	ND	ND	ND	ND	ND	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	13 J	ND	ND	ND	ND	ND	ND	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	ND	ND	ND	ND	1800	1800
Phenanthrene	16 J	ND	ND	8.8 J	ND	ND	ND	210000	---
Pyrene	24 J	8.1 J	ND	12 J	ND	ND	7 J	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-6(0-5)-040814	VL1-6(5-10)-040814	VL1-7(0-5)-040814	VL1-7(5-10)-040814	VL1-8(0-5)-040814	VL1-8(0-5)-040814D	VL1-8(5-10)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-6	VL1-6	VL1-7	VL1-7	VL1-8	VL1-8	VL1-8		
Depth	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5	0 - 5	5 - 10		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	1000	1000
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	ND	ND	ND	ND	25 J	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	ND	52	ND	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	340 J	30 J	ND	85000	---
Anthracene	ND	ND	ND	ND	620 J	64 J	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	ND	ND	ND	ND	2200 J	230 J	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	ND	ND	ND	ND	1600 J	180 J	ND	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	ND	ND	ND	ND	2000 J	270 J	ND	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	ND	ND	ND	ND	840 J	61 J	ND	2300000	---
Benzo(k)fluoranthene	ND	ND	ND	ND	970 J	97 J	ND	9000	1700000
Carbazole	ND	ND	ND	ND	180 J	ND	ND	600	6200000
Chrysene	ND	ND	ND	ND	2100 J	240 J	ND	88000	1.70E+07
Dibenzo(a,h)anthracene	ND	ND	ND	ND	370 J	20 J	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	63 J	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	ND	9 J	ND	ND	4300 J	530 J	ND	3100000	8.20E+07
Fluorene	ND	ND	ND	ND	210	20 J	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	880 J	64	ND	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	ND	74 J	7.7 J	ND	1800	1800
Phenanthrene	ND	ND	ND	ND	850 J	59 J	ND	210000	---
Pyrene	ND	ND	ND	ND	3900 J	430 J	ND	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-9(0-5)-040814	VL1-9(5-10)-040814	VL1-9(5-10)-040814D	VL1-10(0-5)-040914	VL1-10(5-10)-040914	VL1-11(0-5)-040814	VL1-11(5-8)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/9/2014	4/9/2014	4/8/2014	4/8/2014		
Location ID	VL1-9	VL1-9	VL1-9	VL1-10	VL1-10	VL1-11	VL1-11		
Depth	0 - 50	5 - 10	5 - 10	0 - 5	5 - 10	0 - 5	5 - 8		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	ND	ND	ND	ND	1900	ND	1000	1000
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	33	21	95	14	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	3.8 J	17	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	13 J	ND	ND	33 J	ND	150 J	59	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	ND	ND	24 J	ND	130 J	44	570000	1.20E+08
Acenaphthylene	ND	ND	9.6 J	20 J	ND	37 J	7.8 J	85000	---
Anthracene	13 J	ND	8.7 J	35 J	ND	250	58	1.20E+07	6.10E+08
Benzo(a)anthracene	110	36 J	100 J	180	ND	1100	280	900 / 1100 / 1800	170000
Benzo(a)pyrene	95	43 J	74 J	200	ND	890	230	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	130	51 J	92 J	310	ND	1400	410	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	62	22 J	37 J	ND	ND	720	170	2300000	---
Benzo(k)fluoranthene	70	13 J	53	91 J	ND	580	120	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	120	34 J	82 J	210	ND	1500	360	88000	1.70E+07
Dibenzo(a,h)anthracene	ND	29 J	13 J	ND	ND	330	63	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	190	54 J	120 J	260	ND	1800	560	3100000	8.20E+07
Fluorene	ND	19 J	ND	22 J	ND	170 J	40	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	55	35 J	40	100	ND	480	130	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	ND	ND	42 J	ND	130 J	59	1800	1800
Phenanthrene	96	13 J	20 J	170	ND	1500	420	210000	---
Pyrene	200	50	150	240 J	ND	2900	440	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-12(0-5)-040814	VL1-13(0-5)-040914	VL1-13(5-10)-040914	VL1-14(0-5)-040914	VL1-14(5-7)-040914	VL1-15(0-5)-040914	VL1-15(5-7)-040914	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-12	VL1-13	VL1-13	VL1-14	VL1-14	VL1-15	VL1-15		
Depth	0 - 5	0 - 5	5 - 10	0 - 5	5 - 7	0 - 5	5 - 7		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	1000	1000
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	750	ND	ND	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	49	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	190	ND	25 J	440 J-	46 J	63	250	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	75	ND	52	1200 J-	77 J	ND	ND	570000	1.20E+08
Acenaphthylene	51	ND	98	3500 J-	220	11 J	25 J	85000	---
Anthracene	230	ND	230	4800 J-	330	19 J	64	1.20E+07	6.10E+08
Benzo(a)anthracene	1200	ND	2000	31000 J-	1600	68	230	900 / 1100 / 1800	170000
Benzo(a)pyrene	940	ND	2300	38000 J-	1600	62	180	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	1200	ND	3400	38000 J-	2000	88	280	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	640	ND	1300	14000 J	940	30 J	130	2300000	---
Benzo(k)fluoranthene	710	ND	1200	25000 J-	1000	32 J	120	9000	1700000
Carbazole	140 J	ND	200	3300 J-	ND	ND	ND	600	6200000
Chrysene	1800	ND	3100	38000 J-	2000	89	290	88000	1.70E+07
Dibenzo(a,h)anthracene	250	ND	600	4200 J-	190	ND	26 J	90 / 200 / 420	17000
Dibenzofuran	89 J	ND	ND	1500 J-	ND	ND	110 J	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	1900	ND	5500	110000 J-	4900	140	550	3100000	8.20E+07
Fluorene	91	ND	58	1800 J-	120 J	ND	22 J	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	420	ND	1300	15000 J	770	33 J	97	900 / 900 / 1600	170000
Naphthalene, SVOC	85	ND	38	920 J-	77 J	31 J	130	1800	1800
Phenanthrene	1500	ND	1500	58000 J-	2700	140	500	210000	---
Pyrene	2800	ND	4600	110000 J-	4400	150	490	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-16(0-5)-040914	VL1-16(5-10)-040914	VL1-17(0-5)-040914	VL1-17(0-5)-040914D	VL1-17(5-9)-040914	VL1-18(0-5)-040914	VL1-18(0-5)-040914D	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-16	VL1-16	VL1-17	VL1-17	VL1-17	VL1-18	VL1-18		
Depth	0 - 5	5 - 10	0 - 5	0 - 5	5 - 9	0 - 5	0 - 5		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	1000	1000
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	13	ND	ND	260	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	59 J	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	96	ND	10 J	17 J	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	260	ND	ND	ND	720	ND	ND	570000	1.20E+08
Acenaphthylene	120	ND	ND	ND	290 J	11 J	ND	85000	---
Anthracene	780	ND	15 J	15 J	490	9.5 J	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	3000	ND	58	82	ND	30 J	ND	900 / 1100 / 1800	170000
Benzo(a)pyrene	2500	ND	63	85	ND	27 J	ND	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	4200	ND	83 J	150 J	ND	32 J	8.3 J	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	1600	ND	40	40	ND	ND	ND	2300000	---
Benzo(k)fluoranthene	1300	ND	27 J	39	ND	23 J	ND	9000	1700000
Carbazole	510	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	2400	ND	100	140	ND	32 J	ND	88000	1.70E+07
Dibenzo(a,h)anthracene	730	ND	31 J	32 J	ND	ND	ND	90 / 200 / 420	17000
Dibenzofuran	190	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	7700	ND	120	180	120 J	51	13 J	3100000	8.20E+07
Fluorene	350	ND	21 J	23 J	1200	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	1500	ND	44	45	ND	17 J	ND	900 / 900 / 1600	170000
Naphthalene, SVOC	240	ND	ND	11 J	ND	ND	ND	1800	1800
Phenanthrene	4400	ND	61	98	3200	24 J	ND	210000	---
Pyrene	6500	ND	110	170	330 J	56	10 J	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-18(5-10)-040914	VL1-19(0-5)-040914	VL1-19(5-10)-040914	VL2-1(0-5.5)-040714	VL2-2(0-5.5)-040714	VL2-3(0-5.5)-040714	VL2-3(0-5.5)-040714D	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	VL1-18	VL1-19	VL1-19	VL2-1	VL2-2	VL2-3	VL2-3		
Depth	5 - 10	0 - 5	5 - 10	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5.5		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	ND	ND	ND	na	na	na	na	1000	1000
Aroclor-1254	ND	ND	ND	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	23	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	50	110	240	7.7 J	ND	ND	ND	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	ND	240	19 J	13 J	ND	ND	ND	570000	1.20E+08
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	85000	---
Anthracene	ND	29 J	32 J	33 J	ND	ND	ND	1.20E+07	6.10E+08
Benzo(a)anthracene	27 J	230	64	150	ND	28 J	29 J	900 / 1100 / 1800	170000
Benzo(a)pyrene	37	500	42	130	ND	22 J	37	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	73	510	84	170	ND	28 J	43	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	35 J	480	43	91	ND	19 J	21 J	2300000	---
Benzo(k)fluoranthene	25 J	330	19 J	57	ND	19 J	14 J	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	86	240	110	150	ND	32 J	31 J	88000	1.70E+07
Dibenzo(a,h)anthracene	15 J	140	ND	30 J	ND	ND	27 J	90 / 200 / 420	17000
Dibenzofuran	43 J	ND	120 J	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	49	210	110	280	ND	57	56	3100000	8.20E+07
Fluorene	ND	25 J	41	8.7 J	ND	ND	19 J	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	39	360	23 J	78	ND	17 J	32 J	900 / 900 / 1600	170000
Naphthalene, SVOC	54	78	220	ND	ND	ND	ND	1800	1800
Phenanthrene	120	150	360	180	ND	40	28 J	210000	---
Pyrene	30 J	230	89	270	ND	57	47	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL2-4(0-5.5)-040714	VL2-5(0-5.5)-040814	VL2-6(0-5.5)-040814	VL2-7(0-5.5)-040814	VL2-8(0-5)-040814	VL2-8(5-10)-040814	VL2-8(5-10)-040814D	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL2-4	VL2-5	VL2-6	VL2-7	VL2-8	VL2-8	VL2-8		
Depth	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5	5 - 10	5 - 10		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	na	na	na	na	1000	1000
Aroclor-1254	na	na	na	na	na	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	45	32	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	6.6	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	42 J	22 J	ND	7.9 J	230	580	760	---	---
4,6-Dinitro-2-methylphenol	2300	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	42 J	ND	ND	ND	ND	18 J	17 J	570000	1.20E+08
Acenaphthylene	180	11 J	ND	ND	ND	54	65	85000	---
Anthracene	310	22 J	ND	ND	44 J	76	94	1.20E+07	6.10E+08
Benzo(a)anthracene	1700	140	ND	42	170 J	370	440	900 / 1100 / 1800	170000
Benzo(a)pyrene	1500	120	ND	37 J	230	260 J-	280	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	2000	170	ND	64	290	340 J-	420	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	1100	68	ND	31 J	170 J	190 J	200	2300000	---
Benzo(k)fluoranthene	760	65	ND	27 J	90 J	200 J	170	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	2000	160	ND	49	240	520	640	88000	1.70E+07
Dibenzo(a,h)anthracene	300	31 J	ND	ND	ND	50	69	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	150 J	180 J	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	3200	220	ND	90	280	480	570	3100000	8.20E+07
Fluorene	140 J	20 J	ND	ND	93 J	37 J	41	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	730	60	ND	20 J	180	120 J-	130	900 / 900 / 1600	170000
Naphthalene, SVOC	56 J	14 J	ND	ND	140 J	330	400	1800	1800
Phenanthrene	1300	82	ND	42	290	650	770	210000	---
Pyrene	3600	320	ND	70	430	1100 J	1200	2300000	6.10E+07

See notes on page 4-105



**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL2-9(0-5)-040714	VL2-9(5-10)-040714	VL2-10(0-5)-040714	VL2-10(5-10)-040714	WI-1(0-5.5)-040714	WP-1(0-4.9)-040714	WP-1(0-4.9)-040714D	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	VL2-9	VL2-9	VL2-10	VL2-10	WI-1	WP-1	WP-1		
Depth	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5.5	0 - 4.9	0 - 4.9		
Parameter									
<b>PCBs (ug/kg)</b>									
Aroclor-1248	na	na	na	na	ND	na	na	1000	1000
Aroclor-1254	na	na	na	na	ND	na	na	1000	1000
<b>VOCs (ug/kg)</b>									
Acetone	ND	ND	ND	ND	ND	ND	ND	25000	1.00E+08
Chloroform	ND	ND	ND	ND	ND	ND	ND	300	760
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	400	1200000
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	ND	17000	---
<b>SVOCs (ug/kg)</b>									
2-Methylnaphthalene	91	ND	ND	ND	ND	120 J	110 J	---	---
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	---	---
Acenaphthene	6.3 J	ND	ND	ND	ND	ND	ND	570000	1.20E+08
Acenaphthylene	23 J	ND	ND	ND	8.3 J	ND	ND	85000	---
Anthracene	37	ND	ND	ND	8.9 J	68 J	54 J	1.20E+07	6.10E+08
Benzo(a)anthracene	270	12 J	ND	ND	53	270	190	900 / 1100 / 1800	170000
Benzo(a)pyrene	200	10 J	ND	ND	42	260	170 J	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	340	ND	ND	ND	68	330	190	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	150	ND	ND	ND	49	370	200	2300000	---
Benzo(k)fluoranthene	130	ND	ND	ND	22 J	150 J	110 J	9000	1700000
Carbazole	ND	ND	ND	ND	ND	ND	ND	600	6200000
Chrysene	330	11 J	ND	ND	49	310	200	88000	1.70E+07
Dibenzo(a,h)anthracene	54	ND	ND	ND	9.5 J	94 J	ND	90 / 200 / 420	17000
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	ND	ND	2300000	2300000
Fluoranthene	430	18 J	ND	ND	74	550	ND	3100000	8.20E+07
Fluorene	26 J	ND	ND	ND	ND	ND	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	110	ND	ND	ND	32 J	210	92 J	900 / 900 / 1600	170000
Naphthalene, SVOC	53	ND	ND	ND	ND	56 J	49 J	1800	1800
Phenanthrene	280	13 J	ND	ND	37 J	430	230	210000	---
Pyrene	420	18 J	ND	ND	89	580	ND	2300000	6.10E+07

See notes on page 4-105

**Table 4-2 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Organics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	WP-2(0-4.9)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014		
Location ID	WP-2		
Depth	0 - 4.9		
Parameter			
<b>PCBs (ug/kg)</b>			
Aroclor-1248	na	1000	1000
Aroclor-1254	na	1000	1000
<b>VOCs (ug/kg)</b>			
Acetone	ND	25000	1.00E+08
Chloroform	ND	300	760
cis-1,2-Dichloroethene	ND	400	1200000
Methyl ethyl ketone	ND	17000	---
<b>SVOCs (ug/kg)</b>			
2-Methylnaphthalene	11 J	---	---
4,6-Dinitro-2-methylphenol	ND	---	---
Acenaphthene	ND	570000	1.20E+08
Acenaphthylene	ND	85000	---
Anthracene	15 J	1.20E+07	6.10E+08
Benzo(a)anthracene	67	900 / 1100 / 1800	170000
Benzo(a)pyrene	58	90 / 1300 / 2100	17000
Benzo(b)fluoranthene	81	900 / 1500 / 2100	170000
Benzo(g,h,i)perylene	42	2300000	---
Benzo(k)fluoranthene	38	9000	1700000
Carbazole	ND	600	6200000
Chrysene	67	88000	1.70E+07
Dibenzo(a,h)anthracene	14 J	90 / 200 / 420	17000
Dibenzofuran	ND	---	---
Di-N-Butyl phthalate	ND	2300000	2300000
Fluoranthene	110	3100000	8.20E+07
Fluorene	ND	560000	8.20E+07
Indeno(1,2,3-cd)pyrene	33 J	900 / 900 / 1600	170000
Naphthalene, SVOC	ND	1800	1800
Phenanthrene	62	210000	---
Pyrene	120	2300000	6.10E+07

**Notes:**

--- - not applicable or value not available

<sup>A</sup> - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

<sup>B</sup> - Soil Remediation Objective for Construction Worker, most stringent of the *Ingestion or Inhalation* exposure route.


na - Constituent not analyzed.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration biased low.

 Shaded values indicate concentration **exceeds** Reference Concentration.

 Shaded values indicate concentration exceeds Reference Concentration and Soil Remediation Objective for Construction Workers.

**Table 4-3**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	CB-1(0-6)-040814	CB-1(6-8)-040814	CB-2(0-6)-040814	CB-2(6-8)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	CB-1	CB-1	CB-2	CB-2		
Depth	0 - 6	6 - 8	0 - 6	6 - 8		
Parameter						
Laboratory pH	8.23	8.27	8.03	8.07	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	2.4 J	1.7 J	2.7 J	1.1 J	11.3 / 13	61
Barium, Total	23 J-	27 J-	75 J-	20 J-	1500	14000
Beryllium, Total	0.29 J	0.28 J	0.33 J	0.16 J	22	410
Cadmium, Total	0.12 J	0.091 J	0.51 J	0.072 J	5.2	200
Calcium, Total	1200 J	1600 J	16000 J	2400 J	---	---
Chromium, Total	6.5	8.7	8.2	4.7	21	690
Cobalt, Total	3.4	4	5.2	2	20	12000
Copper, Total	7.7 J	8 J	9 J	4.3 J	2900	8200
Iron, Total	9200 J	8300 J	8900 J	4900 J	15000 / 15900	---
Lead, Total	22 J	2.9 J	16 J	4.9 J	107	700
Magnesium, Total	830 J	1300 J	2100 J	720 J	325000	730000
Manganese, Total	120 J	95 J	340 J	79 J	630 / 636	4100
Mercury, Total	0.0085 J	0.011 J	0.02 J	ND	0.89	0.1
Nickel, Total	7.4	8.1	9.8	4.8	100	4100
Potassium, Total	410 J+	610 J+	660 J+	240 J+	---	---
Selenium, Total	0.31 J	0.47 J	0.41 J	0.34 J	1.3	1000
Silver, Total	ND	ND	0.023 J	ND	4.4	1000
Sodium, Total	120 J	290 J	200 J	62 J	---	---
Thallium, Total	ND	ND	0.33 J	ND	2.6	160
Vanadium, Total	15	16	17	9.1	550	1400
Zinc, Total	22 J	18 J	310 J	25 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.22 J	0.15 J	0.38 J	0.26 J	2	---
Cadmium, TCLP	ND	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	ND	ND	ND	ND	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	0.0095	ND	0.0079	ND	0.0075	---
Manganese, TCLP	0.069	0.059	0.23	0.34	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.021 J	0.014 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	ND	ND	ND	0.17 B	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.23 J	0.18 J	0.17 J	0.09 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.026	0.027	0.03	0.011 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	18 J+	15 J+	25 J+	1.8 J+	5	---
Lead, SPLP	0.037	0.017	0.029	0.017	0.0075	---
Manganese, SPLP	0.15 B	0.081 B	0.24 B	ND	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	0.025	0.019 J	0.029	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	CB-3(0-6)-040814	CB-4(0-6)-040814	CB-4(6-8)-040814	CB-5(0-2)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	CB-3	CB-4	CB-4	CB-5		
Depth	0 - 6	0 - 6	6 - 8	0 - 2		
Parameter						
Laboratory pH	7.16	8.02	8.12	8.14	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	0.55 J	ND	ND	5	82
Arsenic, Total	2.4 J	3.4 J	2.5 J	4.2 J	11.3 / 13	61
Barium, Total	34 J-	58 J-	27 J-	230 J-	1500	14000
Beryllium, Total	0.29 J	0.59 J	0.35 J	0.62 J	22	410
Cadmium, Total	0.17 J	0.71 J	0.26 J	0.61 J	5.2	200
Calcium, Total	1600 J	16000 J	15000 J	19000 J	---	---
Chromium, Total	11	13	9.5	14	21	690
Cobalt, Total	5.6	5.8	4.4	8	20	12000
Copper, Total	8.6 J	15 J	9.6 J	22 J	2900	8200
Iron, Total	10000 J	21000 J	11000 J	15000 J	15000 / 15900	---
Lead, Total	3.5 J	80 J	4.8 J	50 J	107	700
Magnesium, Total	1400 J	2800 J	1800 J	3000 J	325000	730000
Manganese, Total	200 J	340 J	170 J	420 J	630 / 636	4100
Mercury, Total	0.011 J	0.087 J	ND	0.14 J	0.89	0.1
Nickel, Total	9.3	12	8.6	15	100	4100
Potassium, Total	730 J+	1000 J+	640 J+	1000 J+	---	---
Selenium, Total	0.37 J	0.91 J-	0.39 J	0.66 J-	1.3	1000
Silver, Total	ND	0.036 J	ND	0.027 J	4.4	1000
Sodium, Total	40 J	110 J	130 J	450 J	---	---
Thallium, Total	0.24 J	0.47 J	ND	0.43 J	2.6	160
Vanadium, Total	20	22	17	23	550	1400
Zinc, Total	22 J	96 J	24 J	100 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.19 J	0.55	0.36 J	0.7	2	---
Cadmium, TCLP	ND	ND	ND	0.0021 J	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	ND	ND	ND	ND	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.21	0.011 J	1.3	0.11	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.01 J	ND	0.1	---
Selenium, TCLP	ND	ND	ND	0.01 J	0.05	---
Zinc, TCLP	ND	ND	ND	ND	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.18 J	0.21 J	0.11 J	0.24 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.033	0.035	0.016 J	0.026	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	23 J+	21 J+	7.4 J+	17 J+	5	---
Lead, SPLP	0.015	0.033	0.014	0.037	0.0075	---
Manganese, SPLP	0.25 B	0.18 B	0.068 B	0.17 B	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	0.026	0.026	0.011 J	0.022 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	CB-6(0-2)-040814	CB-7(0-2)-040814	CB-7(0-2)-040814D	CB-8(0-5)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	CB-6	CB-7	CB-7	CB-8		
Depth	0 - 2	0 - 2	0 - 2	0 - 5		
Parameter						
Laboratory pH	7.56	8.1	8.01	7.61	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	2.3 J-	5	82
Arsenic, Total	4.3 J	3.2 J	3.4 J	5 J	11.3 / 13	61
Barium, Total	88 J-	67 J-	58 J-	110 J-	1500	14000
Beryllium, Total	0.66 J	0.47 J	0.5 J	1.1 J	22	410
Cadmium, Total	0.74 J	0.38 J	0.46 J	1.2 J	5.2	200
Calcium, Total	27000 J	11000 J	24000 J	20000 J	---	---
Chromium, Total	15	13	13	10	21	690
Cobalt, Total	7.1	5.9	6.6	5.1	20	12000
Copper, Total	26 J	20 J	19 J	37 J	2900	8200
Iron, Total	15000 J	12000 J	12000 J	26000 J	15000 / 15900	---
Lead, Total	88 J	38 J	46 J	110 J	107	700
Magnesium, Total	2800 J	2600 J	2500 J	2500 J	325000	730000
Manganese, Total	370 J	270 J	320 J	520 J	630 / 636	4100
Mercury, Total	0.24 J	ND	0.29 J	0.35 J	0.89	0.1
Nickel, Total	14	13	13	16	100	4100
Potassium, Total	1200 J+	940 J+	980 J+	1300 J+	---	---
Selenium, Total	0.78 J-	0.55 J-	0.74 J-	1.5 J-	1.3	1000
Silver, Total	0.052 J	ND	ND	0.17 J	4.4	1000
Sodium, Total	310 J	170 J	170 J	230 J	---	---
Thallium, Total	0.25 J	ND	0.3 J	0.78 J-	2.6	160
Vanadium, Total	23	20	21	16	550	1400
Zinc, Total	160 J	73 J	86 J	300 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.68	0.54	0.67	0.87	2	---
Cadmium, TCLP	0.0032 J	ND	0.0024 J	0.0032 J	0.005	---
Chromium, TCLP	0.01 J	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	0.017 J	1	---
Copper, TCLP	0.072 J	0.1 B	ND	ND	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	0.011	0.0098	ND	0.019	0.0075	---
Manganese, TCLP	0.19	0.16 J	0.75 J	9.6	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	ND	0.021 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.16 B	ND	ND	1 B	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.2 J	0.23 J	0.22 J	0.11 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.027	0.033	0.024 J	0.01 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	13 J+	20 J	11 J	2.3 J+	5	---
Lead, SPLP	0.047	0.046	0.032	0.033	0.0075	---
Manganese, SPLP	0.13 B	0.17 B	0.11 B	0.22 B	0.15	---
Mercury, SPLP	ND	0.00013 J	ND	ND	0.002	---
Nickel, SPLP	0.016 J	0.024 J	0.017 J	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	CB-8(5-10)-040814	ES-1(0-5)-040814	ES-1(5-10)-040814	MC-1(0-6)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	CB-8	ES-1	ES-1	MC-1		
Depth	5 - 10	0 - 5	5 - 10	0 - 6		
Parameter						
Laboratory pH	7.22	8.81	8.92	7.56	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	3 J	4 J	2.5 J	1.2 J	11.3 / 13	61
Barium, Total	110 J-	48	51	33 J-	1500	14000
Beryllium, Total	0.72 J	0.36 J	0.25 J	0.31 J	22	410
Cadmium, Total	0.54 J	0.56 J-	0.35 J-	0.11 J	5.2	200
Calcium, Total	4900 J	140000 J	52000 J	1600 J	---	---
Chromium, Total	17	7 J	7.2 J	9.1	21	690
Cobalt, Total	8.8	4.1 J	4 J	3.7	20	12000
Copper, Total	13 J	15 J	7.6 J	5.8 J	2900	8200
Iron, Total	21000 J	8900 J-	7900 J-	7500 J	15000 / 15900	---
Lead, Total	9.4 J	27 J	19 J	3.6 J	107	700
Magnesium, Total	2400 J	17000 J	4000 J	870 J	325000	730000
Manganese, Total	610 J	400 J	480 J	170 J	630 / 636	4100
Mercury, Total	0.023 J	0.22 J	0.023 J	0.013 J	0.89	0.1
Nickel, Total	15	9.1 J-	8.5 J-	5.2	100	4100
Potassium, Total	1100 J+	900 J	580 J	490 J+	---	---
Selenium, Total	0.92 J-	ND	ND	0.35 J	1.3	1000
Silver, Total	0.062 J	0.045 J	0.05 J	ND	4.4	1000
Sodium, Total	100 J	230 J	130 J	250 J	---	---
Thallium, Total	0.63 J-	ND	0.48 J	0.34 J	2.6	160
Vanadium, Total	28	12 J	12 J	15	550	1400
Zinc, Total	68 J	53 J	40 J	26 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.53	0.42 J	0.42 J	0.17 J	2	---
Cadmium, TCLP	ND	0.002 J	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	0.038	0.016 J	ND	ND	1	---
Copper, TCLP	ND	0.021 J	0.012 J	ND	0.65	---
Iron, TCLP	ND	ND	ND	5.7 B	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	11	2.9	3.5	0.078	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.033	0.011 J	0.012 J	ND	0.1	---
Selenium, TCLP	0.013 J	ND	ND	ND	0.05	---
Zinc, TCLP	ND	0.11	0.022 J	ND	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.24 J	0.11 J	0.063 J	0.22 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.035	0.02 J	ND	0.019 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	34 J+	12 J+	3 J+	12 J+	5	---
Lead, SPLP	0.02	0.035	0.012	ND	0.0075	---
Manganese, SPLP	0.99 B	0.11	0.15	0.11 B	0.15	---
Mercury, SPLP	ND	ND	ND	0.00022	0.002	---
Nickel, SPLP	0.024 J	0.013 J	ND	0.014 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	PL-1(0-5.5)-040714	PL-2(0-5.5)-040714	PL-3(0-5)-040714	PL-3(5-10)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	PL-1	PL-2	PL-3	PL-3		
Depth	0 - 5.5	0 - 5.5	0 - 5	5 - 10		
Parameter						
Laboratory pH	8.9	7.48	7.41	7.53	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	2.3 J	4.8 J	4.5 J	3.6 J	11.3 / 13	61
Barium, Total	35 J	87 J	63 J	89 J	1500	14000
Beryllium, Total	0.23 J	0.58 J	0.43 J	0.55 J	22	410
Cadmium, Total	0.33 J	0.49 J	0.26 J	0.81 J	5.2	200
Calcium, Total	13000 J	6200 J	2300 J	4400 J	---	---
Chromium, Total	9.9 J+	20 J+	15 J+	22 J+	21	690
Cobalt, Total	4.6 J	6.9 J	6.8 J	6.2 J	20	12000
Copper, Total	10 J	16 J	11 J	15 J	2900	8200
Iron, Total	8600 J	18000 J	14000 J	17000 J	15000 / 15900	---
Lead, Total	20 J	9 J	7.7 J	7.2 J	107	700
Magnesium, Total	4900 J	2900 J	1800 J	3700 J	325000	730000
Manganese, Total	310	340	350	440	630 / 636	4100
Mercury, Total	0.014 J	0.038 J	0.045 J	0.054 J	0.89	0.1
Nickel, Total	11 J	18 J	12 J	22 J	100	4100
Potassium, Total	460 J	1200 J	950 J	1300 J	---	---
Selenium, Total	ND	ND	0.28 J	ND	1.3	1000
Silver, Total	ND	ND	ND	0.042 J	4.4	1000
Sodium, Total	530 J	340 J	150 J	150 J	---	---
Thallium, Total	0.4 J	0.45 J	0.42 J	0.54 J	2.6	160
Vanadium, Total	15	31	24	32	550	1400
Zinc, Total	31 J	48 J	34 J	53 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	0.01 J	ND	0.05	---
Barium, TCLP	0.41 J	0.38 J	0.53	0.43 J	2	---
Cadmium, TCLP	ND	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	0.024 J	0.017 J	1	---
Copper, TCLP	0.012 J	ND	0.015 J	0.012 J	0.65	---
Iron, TCLP	ND	ND	2.7	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.55	0.027	7	4.6	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.015 J	0.029	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.049 J	0.032 J	0.035 J	0.029 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.19 J	0.28 J	0.16 J	0.23 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	0.02 J	0.015 J	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.03	0.042	0.019 J	0.033	0.65	---
Iron, SPLP	1.4	13	9.5	4.5	5	---
Lead, SPLP	0.068	0.014	0.012	0.012	0.0075	---
Manganese, SPLP	0.13	0.17	0.97	0.49	0.15	---
Mercury, SPLP	0.0002	0.00015 J	ND	0.00023	0.002	---
Nickel, SPLP	ND	0.015 J	ND	0.019 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.081 J	0.068 J	0.036 J	0.051 J	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SM-1(0-6)-040814	SM-1(6-10)-040814	SM-2(0-6)-040814	SM-2(6-12)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	SM-1	SM-1	SM-2	SM-2		
Depth	0 - 6	6 - 10	0 - 6	6 - 12		
Parameter						
Laboratory pH	9.07	9.03	9.69	9.33	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	4 J	1.9 J	2.4 J	2.4 J	11.3 / 13	61
Barium, Total	62	28	57	61	1500	14000
Beryllium, Total	0.47 J	0.2 J	0.35 J	0.37 J	22	410
Cadmium, Total	0.7 J-	0.26 J-	0.3 J-	0.45 J-	5.2	200
Calcium, Total	18000 J	48000 J	21000 J	38000 J	---	---
Chromium, Total	15 J	6.3 J	9.6 J	8.5 J	21	690
Cobalt, Total	12 J	2.8 J	4.7 J	4.3 J	20	12000
Copper, Total	16 J	7.5 J	11 J	13 J	2900	8200
Iron, Total	14000 J-	7100 J-	9900 J-	10000 J-	15000 / 15900	---
Lead, Total	28 J	23 J	22 J	36 J	107	700
Magnesium, Total	3200 J	920 J	1500 J	1700 J	325000	730000
Manganese, Total	600 J	180 J	240 J	480 J	630 / 636	4100
Mercury, Total	8.00E-02 J	0.12 J	6.90E-02 J	0.35 J	0.89	0.1
Nickel, Total	15 J-	6.7 J-	9.1 J-	8.8 J-	100	4100
Potassium, Total	990 J	560 J	810 J	780 J	---	---
Selenium, Total	ND	ND	ND	ND	1.3	1000
Silver, Total	ND	ND	ND	0.041 J	4.4	1000
Sodium, Total	640 J	210 J	600 J	780 J	---	---
Thallium, Total	0.58	ND	ND	0.58	2.6	160
Vanadium, Total	23 J	10 J	17 J	13 J	550	1400
Zinc, Total	65 J	45 J	42 J	55 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.47 J	0.48 J	0.47 J	0.7	2	---
Cadmium, TCLP	0.0024 J	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	0.019 J	ND	ND	1	---
Copper, TCLP	0.066	0.031	0.042	0.017 J	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.86	2.6	0.51	2.5	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	0.02 J	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.081 J	0.16	0.046 J	0.086 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.015 J	ND	0.014 J	ND	0.05	---
Barium, SPLP	0.32 J	0.15 J	0.38 J	0.22 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.071	0.027	0.084	0.014 J	0.1	---
Cobalt, SPLP	0.013 J	ND	0.018 J	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	67 J+	18 J+	68 J+	7.8 J+	5	---
Lead, SPLP	0.088	0.064	0.14	0.078	0.0075	---
Manganese, SPLP	0.6	0.16	0.54	0.4	0.15	---
Mercury, SPLP	0.00019 J	ND	0.00018 J	0.00018 J	0.002	---
Nickel, SPLP	0.055	0.018 J	0.061	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.42 B	0.23 B	0.47 B	ND	5	---

See notes on page 4-136



**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SM-3(0-6)-040814	SM-3(0-6)-040814D	SM-3(6-12)-040814	SR-1(0-5)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/7/2014		
Location ID	SM-3	SM-3	SM-3	SR-1		
Depth	0 - 6	0 - 6	6 - 12	0 - 5		
Parameter						
Laboratory pH	9.38	9.48	8.86	8.23	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	0.6 J	5	82
Arsenic, Total	2.6 J	3 J	2.6 J	4.6 J	11.3 / 13	61
Barium, Total	60	58	55	130	1500	14000
Beryllium, Total	0.38 J	0.42 J	0.31 J	0.62	22	410
Cadmium, Total	0.49 J-	0.52 J-	0.23 J-	0.81 J	5.2	200
Calcium, Total	53000 J	40000 J	13000 J	12000 J	---	---
Chromium, Total	8.1 J	9.6 J	7 J	13	21	690
Cobalt, Total	4 J	4.5 J	3.9 J	6.6 J-	20	12000
Copper, Total	12 J	14 J	7.5 J	49 J	2900	8200
Iron, Total	11000 J-	12000 J-	8100 J-	15000 J	15000 / 15900	---
Lead, Total	42 J	41 J	24 J	150 J	107	700
Magnesium, Total	1400 J	2000 J	960 J	2400 J	325000	730000
Manganese, Total	350 J	330 J	210 J	510 J-	630 / 636	4100
Mercury, Total	0.24 J	0.13 J	0.044 J	0.83 J	0.89	0.1
Nickel, Total	9 J-	10 J-	6.9 J-	14	100	4100
Potassium, Total	850 J	970 J	720 J	1100 J+	---	---
Selenium, Total	ND	ND	0.25 J	0.25 J	1.3	1000
Silver, Total	0.033 J	0.036 J	ND	0.078 J	4.4	1000
Sodium, Total	960 J	1100 J	650 J	160 B	---	---
Thallium, Total	0.37 J	0.32 J	ND	0.58	2.6	160
Vanadium, Total	14 J	16 J	12 J	20	550	1400
Zinc, Total	60 J	67 J	47 J	190 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.54	0.6	0.67	0.69	2	---
Cadmium, TCLP	0.0021 J	0.0039 J	ND	0.0032 J	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	0.022 J	ND	1	---
Copper, TCLP	0.045	0.016 J	0.043	ND	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	ND	ND	0.0094	ND	0.0075	---
Manganese, TCLP	1 J	4.7 J	4.8	0.48	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	0.02 J	0.014 J	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.084 J	0.22 J	0.18	0.28	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	0.019 J	ND	0.05	---
Barium, SPLP	0.19 J	0.26 J	0.2 J	0.14 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	0.04	0.03	0.029	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	6.9 J	35 J	26 J+	25 J+	5	---
Lead, SPLP	0.088 J	0.15 J	0.11	0.074	0.0075	---
Manganese, SPLP	0.23 J	0.43 J	0.58	0.16	0.15	---
Mercury, SPLP	0.00027	0.00031	ND	0.0014	0.002	---
Nickel, SPLP	ND	0.031	0.022 J	0.017 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	0.33 J	ND	0.24 B	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SR-1(5-10)-040714	SR-1(5-10)-040714D	SR-2(0-5)-040714	SR-2(5-10)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	SR-1	SR-1	SR-2	SR-2		
Depth	5 - 10	5 - 10	0 - 5	5 - 10		
Parameter						
Laboratory pH	7.99	8.18	8.14	7.74	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	4.8 J	3.3 J	4.1 J	5.1 J	11.3 / 13	61
Barium, Total	35 J	64 J	79	83	1500	14000
Beryllium, Total	0.25 J	0.51 J	0.41	0.5	22	410
Cadmium, Total	0.068 J	0.12 J	0.38 J	0.36 J	5.2	200
Calcium, Total	9800 J	3900 J	83000 J	9400 J	---	---
Chromium, Total	6.7 J	16 J	13	16	21	690
Cobalt, Total	7.2 J-	6.9 J-	5.2 J-	5.7 J-	20	12000
Copper, Total	6.7 J	12 J	15 J	17 J	2900	8200
Iron, Total	7100 J	14000 J	12000 J	17000 J	15000 / 15900	---
Lead, Total	5.3 J	6.7 J	27 J	17 J	107	700
Magnesium, Total	960 J	2200 J	3800 J	6700 J	325000	730000
Manganese, Total	100 J-	120 J-	460 J-	470 J-	630 / 636	4100
Mercury, Total	0.024 J	0.021 J	0.058 J	0.03 J	0.89	0.1
Nickel, Total	11	13	12	17	100	4100
Potassium, Total	620 J	1100 J	1100 J+	1000 J+	---	---
Selenium, Total	0.44 J	ND	ND	ND	1.3	1000
Silver, Total	ND	ND	ND	ND	4.4	1000
Sodium, Total	120 B	150 B	140 B	150 B	---	---
Thallium, Total	ND	ND	0.38 J	0.38 J	2.6	160
Vanadium, Total	8 J	22 J	20	30	550	1400
Zinc, Total	39 J	43 J	41 J	47 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.37 J	0.31 J	0.74	0.64	2	---
Cadmium, TCLP	ND	ND	0.002 J	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	ND	0.014 J	0.057	0.016 J	0.65	---
Iron, TCLP	ND	0.79	ND	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.41 J	0.12 J	0.39	0.27	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.016 J	ND	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.025 J	0.064 J	0.069 J	0.063 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.12 J	0.1 J	0.24 J	0.15 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.022 J	0.012 J	ND	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	5.9 J+	3.2 J+	4.1 J+	4.5 J+	5	---
Lead, SPLP	0.0087	ND	0.014	0.016	0.0075	---
Manganese, SPLP	0.029	0.022 J	0.051	0.061	0.15	---
Mercury, SPLP	ND	ND	0.00013 J	ND	0.002	---
Nickel, SPLP	ND	ND	ND	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SR-2(10-13)-040714	SR-3(0-5)-040714	SR-3(5-10)-040714	SR-3(10-13)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	SR-2	SR-3	SR-3	SR-3		
Depth	10 - 13	0 - 5	5 - 10	10 - 13		
Parameter						
Laboratory pH	8.47	7.57	7.76	8.65	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	0.5 J	ND	ND	5	82
Arsenic, Total	0.81 J	7.2 J	5.5 J	2.1 J	11.3 / 13	61
Barium, Total	5.3	100	92	8.1	1500	14000
Beryllium, Total	ND	0.67	0.62	0.056 J	22	410
Cadmium, Total	0.014 J	0.97 J	0.38 J	ND	5.2	200
Calcium, Total	240 J	33000 J	8800 J	600 J	---	---
Chromium, Total	5.3	14	19	3.1	21	690
Cobalt, Total	0.47 J-	6.3 J-	15 J-	1.4 J-	20	12000
Copper, Total	2.5 J	75 J	18 J	2.9 J	2900	8200
Iron, Total	2200 J	17000 J	17000 J	4900 J	15000 / 15900	---
Lead, Total	1.2 J	84 J	14 J	1.3 J	107	700
Magnesium, Total	120 J	3100 J	3200 J	400 J	325000	730000
Manganese, Total	27 J-	540 J-	790 J-	59 J-	630 / 636	4100
Mercury, Total	ND	0.29 J	0.041 J	ND	0.89	0.1
Nickel, Total	1.7	15	24	3.3	100	4100
Potassium, Total	310 J+	1000 J+	1700 J+	130 J+	---	---
Selenium, Total	0.27 J	ND	ND	ND	1.3	1000
Silver, Total	ND	0.051 J	ND	ND	4.4	1000
Sodium, Total	100 B	240 B	160 B	ND	---	---
Thallium, Total	ND	0.64	0.94	ND	2.6	160
Vanadium, Total	1.8	22	28	5.6	550	1400
Zinc, Total	2.8 J	180 J	51 J	9.1 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.15 J	0.82	0.47 J	0.22 J	2	---
Cadmium, TCLP	ND	0.0056	ND	ND	0.005	---
Chromium, TCLP	0.013 J	ND	0.01 J	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.075	0.015 J	0.029	0.02 J	0.65	---
Iron, TCLP	0.92	ND	1.7	0.98	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.73	0.54	0.13	1	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.011 J	ND	0.038	0.019 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.071 J	0.2	0.083 J	0.057 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	ND	0.22 J	0.21 J	0.062 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	ND	0.018 J	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	0.41 J+	4.6 J+	13 J+	0.33 J+	5	---
Lead, SPLP	ND	0.072	ND	ND	0.0075	---
Manganese, SPLP	0.079	0.087	0.081	0.072	0.15	---
Mercury, SPLP	ND	0.00032	0.0003	ND	0.002	---
Nickel, SPLP	ND	ND	0.014 J	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	0.19 B	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SR-4(0-5)-040714	SR-4(0-5)-040714D	SR-4(5-10)-040714	SR-4(10-12)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	SR-4	SR-4	SR-4	SR-4		
Depth	0 - 5	0 - 5	5 - 10	10 - 12		
Parameter						
Laboratory pH	8.28	8.41	8.12	8.61	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	5.8 J	6.2 J	7 J	6.6 J	11.3 / 13	61
Barium, Total	94	73	85	73	1500	14000
Beryllium, Total	0.5	0.4	0.47	0.43	22	410
Cadmium, Total	0.41 J	0.38 J	0.3 J	0.39 J	5.2	200
Calcium, Total	11000 J	28000 J	14000 J	17000 J	---	---
Chromium, Total	16	13	14	13	21	690
Cobalt, Total	7.3 J-	5.4 J-	6.6 J-	6.6 J-	20	12000
Copper, Total	19 J	17 J	18 J	18 J	2900	8200
Iron, Total	16000 J	14000 J	17000 J	14000 J	15000 / 15900	---
Lead, Total	54 J	54 J	48 J	52 J	107	700
Magnesium, Total	3000 J	2600 J	4400 J	3500 J	325000	730000
Manganese, Total	630 J-	400 J-	390 J-	380 J-	630 / 636	4100
Mercury, Total	0.11 J	0.1 J	0.094 J	0.17 J	0.89	0.1
Nickel, Total	20	14	16	16	100	4100
Potassium, Total	1100 J+	980 J+	1100 J+	1000 J+	---	---
Selenium, Total	ND	ND	ND	ND	1.3	1000
Silver, Total	ND	ND	ND	ND	4.4	1000
Sodium, Total	210 B	200 B	270 B	200 B	---	---
Thallium, Total	0.53 J	0.33 J	0.31 J	0.27 J	2.6	160
Vanadium, Total	25	21	25	20	550	1400
Zinc, Total	96 J	68 J	67 J	77 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.82	0.77	0.85	0.83	2	---
Cadmium, TCLP	0.0026 J	0.0028 J	0.003 J	0.0037 J	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	0.014 J	0.03	1	---
Copper, TCLP	0.016 J	0.02 J	0.016 J	0.016 J	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	0.01	ND	0.0094	0.017	0.0075	---
Manganese, TCLP	0.43	0.52	6.8	6.7	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.011 J	0.011 J	0.026	0.045	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.076 J	0.092 J	0.071 J	0.18	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.24 J	0.23 J	0.2 J	0.21 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.016 J	0.011 J	0.011 J	0.011 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	12 J+	7.2 J+	7.6 J+	8.1 J+	5	---
Lead, SPLP	0.07	0.073	0.14	0.11	0.0075	---
Manganese, SPLP	0.26	0.25	0.96	0.45	0.15	---
Mercury, SPLP	0.00034	0.00046	0.00034	0.00048	0.002	---
Nickel, SPLP	0.012 J	ND	0.011 J	0.01 J	0.1	---
Selenium, SPLP	ND	ND	ND	0.012 J	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.19 B	0.14 B	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	SR-5(0-5)-040714	SR-6(0-5)-040714	SR-7(0-3)-040714	SR-8(0-3)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	SR-5	SR-6	SR-7	SR-8		
Depth	0 - 5	0 - 5	0 - 3	0 - 3		
Parameter						
Laboratory pH	7.64	8.45	7.86	8	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	6.5 J	4.4 J	4.7 J	4.9 J	11.3 / 13	61
Barium, Total	83	71	110	92	1500	14000
Beryllium, Total	0.45	0.38	0.57	0.55	22	410
Cadmium, Total	0.19 J	0.64 J	0.7 J	0.6 J	5.2	200
Calcium, Total	3300 J	130000 J	12000 J	24000 J	---	---
Chromium, Total	18	13	17	16	21	690
Cobalt, Total	8.1 J-	5 J-	6.2 J-	6.5 J-	20	12000
Copper, Total	17 J	17 J	37 J	30 J	2900	8200
Iron, Total	18000 J	14000 J	14000 J	16000 J	15000 / 15900	---
Lead, Total	10 J	42 J	130 J	60 J	107	700
Magnesium, Total	2200 J	4000 J	3100 J	6100 J	325000	730000
Manganese, Total	580 J-	550 J-	430 J-	410 J-	630 / 636	4100
Mercury, Total	0.036 J	7.30E-02 J	0.42 J	0.12 J	0.89	0.1
Nickel, Total	17	12	15	16	100	4100
Potassium, Total	1200 J+	1200 J+	980 J+	1000 J+	---	---
Selenium, Total	0.27 J	ND	0.35 J	ND	1.3	1000
Silver, Total	ND	0.031 J	0.056 J	0.034 J	4.4	1000
Sodium, Total	850 B	920 B	390 B	260 B	---	---
Thallium, Total	0.66	0.43 J	0.57	0.3 J	2.6	160
Vanadium, Total	30	20	20	22	550	1400
Zinc, Total	38 J	67 J	120 J	87 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.45 J	0.85	0.91	0.76	2	---
Cadmium, TCLP	ND	0.0046 J	0.004 J	0.0027 J	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.017 J	0.021 J	0.032	0.022 J	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	ND	0.0079	0.0097	ND	0.0075	---
Manganese, TCLP	0.53	1.7	1.8	0.22	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.037 J	0.17	0.18	0.089 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.039 J	ND	ND	ND	0.05	---
Barium, SPLP	0.46 J	0.11 J	0.28 J	0.27 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	0.0021 J	ND	ND	ND	0.005	---
Chromium, SPLP	0.15	0.014 J	0.01 J	0.019 J	0.1	---
Cobalt, SPLP	0.027	ND	ND	ND	1	---
Copper, SPLP	0.16 B	ND	ND	ND	0.65	---
Iron, SPLP	150 J+	8.6 J+	6.8 J+	13 J+	5	---
Lead, SPLP	0.076	0.017	0.09	0.085	0.0075	---
Manganese, SPLP	0.64	0.048	0.15	0.14	0.15	---
Mercury, SPLP	0.00056	ND	0.00067	0.00027	0.002	---
Nickel, SPLP	0.12	ND	ND	0.012 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.37 B	ND	0.14 B	0.16 B	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VB-1(0-6)-040814	VB-1(6-10)-040814	VB-2(0-6)-040814	VB-2(6-12.5)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VB-1	VB-1	VB-2	VB-2		
Depth	0 - 6	6 - 10	0 - 6	6 - 12.5		
Parameter						
Laboratory pH	9.69	9.11	7.98	8.75	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	2 J	8.1 J	2.5 J	2.9 J	11.3 / 13	61
Barium, Total	60	68	31	33	1500	14000
Beryllium, Total	0.4 J	0.37 J	0.23 J	0.24 J	22	410
Cadmium, Total	0.31 J-	0.45 J-	0.13 J-	0.18 J-	5.2	200
Calcium, Total	39000 J	4700 J	1500 J	2900 J	---	---
Chromium, Total	7.2 J	11 J	8.7 J	10 J	21	690
Cobalt, Total	3.5 J	5.7 J	3.9 J	4.5 J	20	12000
Copper, Total	7.8 J	8.1 J	7.7 J	10 J	2900	8200
Iron, Total	9000 J-	17000 J-	8500 J-	9800 J-	15000 / 15900	---
Lead, Total	33 J	6.6 J	4.6 J	4.4 J	107	700
Magnesium, Total	1000 J	1600 J	1000 J	2000 J	325000	730000
Manganese, Total	320 J	170 J	130 J	210 J	630 / 636	4100
Mercury, Total	1.6 J	0.031 J	0.012 J	0.011 J	0.89	0.1
Nickel, Total	6.8 J-	10 J-	7.3 J-	12 J-	100	4100
Potassium, Total	570 J	760 J	460 J	620 J	---	---
Selenium, Total	ND	0.59 J-	ND	0.24 J	1.3	1000
Silver, Total	0.053 J	ND	ND	ND	4.4	1000
Sodium, Total	730 J	1000 J	260 J	310 J	---	---
Thallium, Total	0.43 J	0.33 J	0.28 J	0.39 J	2.6	160
Vanadium, Total	12 J	20 J	18 J	16 J	550	1400
Zinc, Total	79 J	29 J	17 J	32 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.44 J	0.23 J	0.28 J	0.28 J	2	---
Cadmium, TCLP	0.0021 J	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.021 J	0.035	0.018 J	0.032	0.65	---
Iron, TCLP	ND	1.5	0.3	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.78	0.23	0.061	1.4	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	ND	0.025	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.12	0.031 J	0.033 J	0.14	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	0.09	ND	ND	0.05	---
Barium, SPLP	0.31 J	0.48 J	0.13 J	0.11 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.063	0.13	0.018 J	0.014 J	0.1	---
Cobalt, SPLP	0.012 J	0.036	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	51 J+	160 J+	12 J+	8.6 J+	5	---
Lead, SPLP	0.17	0.076	0.017	0.0093	0.0075	---
Manganese, SPLP	0.64	0.62	0.11	0.15	0.15	---
Mercury, SPLP	0.00041	0.00023	ND	ND	0.002	---
Nickel, SPLP	0.039	0.087	0.011 J	ND	0.1	---
Selenium, SPLP	ND	0.01 J	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.62 B	0.35 B	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VB-3(0-6)-040814	VB-3(6-12.5)-040814	VB-4(0-5)-040814	VB-4(5-10)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VB-3	VB-3	VB-4	VB-4		
Depth	0 - 6	6 - 12.6	0 - 5	5 - 10		
Parameter						
Laboratory pH	9.39	8.92	7.22	7.12	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	2.6 J	2.7 J	1.2 J	1.3 J	11.3 / 13	61
Barium, Total	36	19	21	70	1500	14000
Beryllium, Total	0.26 J	0.15 J	0.2 J	0.26	22	410
Cadmium, Total	0.18 J-	0.12 J-	0.076 J	0.083 J	5.2	200
Calcium, Total	1900 J	1200 J	5800 J-	1900 J-	---	---
Chromium, Total	10 J	6.7 J	7	11	21	690
Cobalt, Total	4.2 J	3 J	2.4	4	20	12000
Copper, Total	7.4 J	6 J	4.5	8.8	2900	8200
Iron, Total	9800 J-	7300 J-	5900 J+	8400 J+	15000 / 15900	---
Lead, Total	5.4 J	2.6 J	2.6 J	3 J	107	700
Magnesium, Total	1200 J	970 J	1000 J+	1400 J+	325000	730000
Manganese, Total	110 J	82 J	94 J	440 J	630 / 636	4100
Mercury, Total	0.015 J	ND	0.042	0.012 J	0.89	0.1
Nickel, Total	7.7 J-	7.9 J-	6.3	10	100	4100
Potassium, Total	560 J	310 J	370 J+	630 J+	---	---
Selenium, Total	0.37 J	0.33 J	ND	ND	1.3	1000
Silver, Total	ND	ND	ND	ND	4.4	1000
Sodium, Total	620 J	190 J	39 J	130	---	---
Thallium, Total	0.23 J	ND	ND	0.38 J	2.6	160
Vanadium, Total	19 J	10 J	12	15	550	1400
Zinc, Total	21 J	14 J	26 B	20 B	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.2 J	0.24 J	0.22 J	0.2 J	2	---
Cadmium, TCLP	ND	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	0.017 J	ND	ND	1	---
Copper, TCLP	0.028 J	0.053	0.013 J	0.018 J	0.65	---
Iron, TCLP	1.5	0.22	0.3	0.94	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.12	0.95	0.05	0.019 J	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	0.026	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.034 J	0.054 J	0.041 J	0.035 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.022 J	ND	ND	ND	0.05	---
Barium, SPLP	0.42 J	0.12 J	ND	ND	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.12	0.01 J	0.063	0.039	0.1	---
Cobalt, SPLP	0.021 J	ND	ND	ND	1	---
Copper, SPLP	ND	ND	0.1 B	0.089 B	0.65	---
Iron, SPLP	100 J+	3.3 J+	47	27	5	---
Lead, SPLP	0.065	0.0075	0.023	0.022	0.0075	---
Manganese, SPLP	0.37	0.1	0.18	0.17	0.15	---
Mercury, SPLP	0.0002	ND	0.00021	ND	0.002	---
Nickel, SPLP	0.068	ND	0.033	0.023 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.3 B	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VB-5(0-5)-040814	VB-5(5-10)-040814	VB-6(0-5)-040914	VB-6(5-10)-040914	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/9/2014	4/9/2014		
Location ID	VB-5	VB-5	VB-6	VB-6		
Depth	0 - 5	5 - 10	0 - 5	5 - 10		
Parameter						
Laboratory pH	7.4	7.09	8.65	8.12	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	1.6 J	33 J	4.3 J	3.3 J	11.3 / 13	61
Barium, Total	49	290	76	110	1500	14000
Beryllium, Total	0.33	0.45	0.47 J	0.74 J	22	410
Cadmium, Total	0.15	0.71	0.37 J-	0.12 J	5.2	200
Calcium, Total	4000 J-	3000 J-	14000 J	4800 J	---	---
Chromium, Total	13	13	15 J	22 J	21	690
Cobalt, Total	4.5	32	6.2 J	6.3 J	20	12000
Copper, Total	10	23	22 J-	20 J-	2900	8200
Iron, Total	10000 J+	29000 J+	14000 J	19000 J	15000 / 15900	---
Lead, Total	15 J	6.5 J	28 J	10 J	107	700
Magnesium, Total	1500 J+	1900 J+	8800 J	4000 J	325000	730000
Manganese, Total	51 J	3400 J	480 J	250 J	630 / 636	4100
Mercury, Total	0.061	0.024	0.15	0.051	0.89	0.1
Nickel, Total	9.9	45	14 J	18 J	100	4100
Potassium, Total	840 J+	900 J+	1100 J+	1200 J+	---	---
Selenium, Total	0.37 J	0.42 J	ND	ND	1.3	1000
Silver, Total	ND	0.14 J	ND	ND	4.4	1000
Sodium, Total	49 J	67	800	460	---	---
Thallium, Total	ND	2.4	0.37 J	ND	2.6	160
Vanadium, Total	21	45	21	22	550	1400
Zinc, Total	47 B	80 B	53 J-	62 J-	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.67	0.43 J	0.42 J	0.29 J	2	---
Cadmium, TCLP	ND	ND	0.0024 J	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	0.022 J	ND	ND	ND	1	---
Copper, TCLP	0.019 J	0.028	0.03	0.039	0.65	---
Iron, TCLP	0.3	1	0.27	2	5	---
Lead, TCLP	0.022	ND	ND	ND	0.0075	---
Manganese, TCLP	0.56	0.55	0.91	0.066	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.021 J	0.027	0.011 J	0.011 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.18	0.059 J	0.15	0.054 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	0.049 J	0.032 J	0.025 J	0.05	---
Barium, SPLP	ND	0.34 J	0.69	0.59	2	---
Beryllium, SPLP	ND	ND	0.0055	0.0045	0.004	---
Cadmium, SPLP	ND	ND	0.0033 J	ND	0.005	---
Chromium, SPLP	0.042	0.042	0.19	0.16	0.1	---
Cobalt, SPLP	0.012 J	0.015 J	0.03	0.02 J	1	---
Copper, SPLP	ND	ND	0.24	0.12	0.65	---
Iron, SPLP	33	56	170 J+	120 J+	5	---
Lead, SPLP	0.04	0.016	0.17	0.038	0.0075	---
Manganese, SPLP	0.11	0.69	1.2	0.43	0.15	---
Mercury, SPLP	0.00013 J	0.00015 J	0.0012	0.0004	0.002	---
Nickel, SPLP	0.029	0.051	0.13	0.078	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	0.8	0.33	5	---

See notes on page 4-136



**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL-1(0-5.5)-040914	VL-2(0-5.5)-040914	VL-3(0-5.5)-040914	VL1-1(0-5)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/8/2014		
Location ID	VL-1	VL-2	VL-3	VL1-1		
Depth	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5		
Parameter						
Laboratory pH	8.14	7.26	7.99	6.47	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	4.4	4.2	8.6	3.1 J	11.3 / 13	61
Barium, Total	56	95	120	39	1500	14000
Beryllium, Total	0.48	0.62	0.43	0.36	22	410
Cadmium, Total	0.18	0.19	0.2	ND	5.2	200
Calcium, Total	2300	2400	3600	1900 J-	---	---
Chromium, Total	16	23	17	11	21	690
Cobalt, Total	7.4	18	5.4	5.5	20	12000
Copper, Total	17	24	18	8	2900	8200
Iron, Total	16000	19000	20000	11000 J+	15000 / 15900	---
Lead, Total	4.9 B	7.3 B	57 B	5.7 J	107	700
Magnesium, Total	2100	3900	2900	1400 J+	325000	730000
Manganese, Total	260	550	260	110 J	630 / 636	4100
Mercury, Total	0.035	0.023	0.18	0.015 J	0.89	0.1
Nickel, Total	14	19	15	9.1	100	4100
Potassium, Total	760	1100	1100	590 J+	---	---
Selenium, Total	ND	ND	0.39 J	ND	1.3	1000
Silver, Total	ND	ND	ND	ND	4.4	1000
Sodium, Total	220	190	210	25 J	---	---
Thallium, Total	0.34 J	0.55 J	ND	ND	2.6	160
Vanadium, Total	31	38	31	21	550	1400
Zinc, Total	24	31	65	27 B	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.27 J	0.34 J	0.96	0.24 J	2	---
Cadmium, TCLP	ND	ND	0.0068	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	0.029	ND	1	---
Copper, TCLP	ND	ND	0.11	0.022 J	0.65	---
Iron, TCLP	0.23	0.83	0.36	0.29	5	---
Lead, TCLP	ND	ND	1.4	ND	0.0075	---
Manganese, TCLP	ND	ND	4.1 B	0.017 J	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.032	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	ND	ND	1.5 B	0.042 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.028 J	ND	ND	ND	0.05	---
Barium, SPLP	0.77	0.13 J	0.2 J	ND	2	---
Beryllium, SPLP	0.0054	ND	ND	ND	0.004	---
Cadmium, SPLP	0.0028 J	ND	ND	ND	0.005	---
Chromium, SPLP	0.2	0.017 J	0.013 J	0.032	0.1	---
Cobalt, SPLP	0.036	ND	ND	ND	1	---
Copper, SPLP	0.22	0.021 J	0.019 J	ND	0.65	---
Iron, SPLP	150	8.8	7.1	23	5	---
Lead, SPLP	0.038	0.0078	0.22	0.016	0.0075	---
Manganese, SPLP	1.2	0.064	0.11	0.35	0.15	---
Mercury, SPLP	0.00042	ND	0.00016 J	ND	0.002	---
Nickel, SPLP	0.15	0.011 J	ND	0.024 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.3	0.062 J	0.14	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-1(5-10)-040814	VL1-2(0-6)-040814	VL1-2(6-10)-040814	VL1-3(0-6)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-1	VL1-2	VL1-2	VL1-3		
Depth	5 - 10	0 - 6	6 - 10	0 - 6		
Parameter						
Laboratory pH	7.06	7.55	8.5	8.23	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	1.4 J	2.9 J	1.9 J	1.4 J	11.3 / 13	61
Barium, Total	60	29	43	41	1500	14000
Beryllium, Total	0.15 J	0.23 J	0.16 J	0.25	22	410
Cadmium, Total	0.31	0.21 J-	0.16 J-	0.016 J	5.2	200
Calcium, Total	1100 J-	1100 J	2900 J	2100 J	---	---
Chromium, Total	5.3	7.7 J	6.6 J	8.7	21	690
Cobalt, Total	2.6	3.3 J	2.6 J	4.1	20	12000
Copper, Total	9.3	7.2 J	5.9 J	4.7	2900	8200
Iron, Total	5700 J+	8900 J-	5900 J-	7200 J+	15000 / 15900	---
Lead, Total	2 J	2.8 J	2.6 J	5.7 J	107	700
Magnesium, Total	880 J+	1400 J	1100 J	1200 J+	325000	730000
Manganese, Total	940 J	150 J	300 J	260 J	630 / 636	4100
Mercury, Total	0.018 J	0.013 J	ND	ND	0.89	0.1
Nickel, Total	25	8.7 J-	8.2 J-	6.3	100	4100
Potassium, Total	270 J+	440 J	280 J	530 J+	---	---
Selenium, Total	ND	0.31 J	ND	ND	1.3	1000
Silver, Total	0.058 J	ND	ND	ND	4.4	1000
Sodium, Total	37 J	27 J	57 J	44 J	---	---
Thallium, Total	0.92	0.31 J	0.27 J	0.24 J	2.6	160
Vanadium, Total	11	17 J	12 J	14	550	1400
Zinc, Total	12 B	16 J	11 J	18 B	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.2 J	0.2 J	0.24 J	0.38 J	2	---
Cadmium, TCLP	ND	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.026	0.043	0.072	0.055 J	0.65	---
Iron, TCLP	1.2	0.4	0.35	0.39	5	---
Lead, TCLP	0.0075	ND	ND	0.014 J	0.0075	---
Manganese, TCLP	0.043	0.074	0.63	0.44	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.015 J	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.054 J	0.039 J	0.064 J	0.076 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	ND	0.12 J	0.14 J	ND	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.054	0.014 J	0.022 J	0.045 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	42	7.7 J+	15 J+	34 J	5	---
Lead, SPLP	0.018	0.011	0.019	0.016 J	0.0075	---
Manganese, SPLP	0.73	0.065	0.19	0.36 J	0.15	---
Mercury, SPLP	0.00017 J	ND	ND	0.00011 J	0.002	---
Nickel, SPLP	0.043	ND	0.014 J	0.025	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-3(0-6)-040814D	VL1-3(6-10)-040814	VL1-4(0-6)-040814	VL1-4(6-10)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-3	VL1-3	VL1-4	VL1-4		
Depth	0 - 6	6 - 10	0 - 6	6 - 10		
Parameter						
Laboratory pH	8.21	7.87	8.1	8.11	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	1.2 J	1.1 J	1.3 J	1 J	11.3 / 13	61
Barium, Total	39	37	94	16	1500	14000
Beryllium, Total	0.24	0.3	0.35	0.16 J	22	410
Cadmium, Total	ND	ND	0.059 J	ND	5.2	200
Calcium, Total	1200 J	2200 J-	4600 J-	1300 J-	---	---
Chromium, Total	8	14	8.3	6.2	21	690
Cobalt, Total	3.9	2.7	5.2	2.1	20	12000
Copper, Total	4.1	8.7	5.8	4	2900	8200
Iron, Total	6700 J+	9700 J+	7100 J+	5700 J+	15000 / 15900	---
Lead, Total	3.9 J	3.9 J	5.6 J	1.9 J	107	700
Magnesium, Total	1100 J+	1900 J+	920 J+	750 J+	325000	730000
Manganese, Total	220 J	66 J	720 J	70 J	630 / 636	4100
Mercury, Total	ND	0.012 J	0.01 J	0.013 J	0.89	0.1
Nickel, Total	5.5	7.4	6.3	5	100	4100
Potassium, Total	540 J+	780 J+	770 J+	300 J+	---	---
Selenium, Total	ND	ND	ND	ND	1.3	1000
Silver, Total	ND	ND	0.021 J	ND	4.4	1000
Sodium, Total	41 J	250	41 J	120	---	---
Thallium, Total	0.4 J	ND	0.62	ND	2.6	160
Vanadium, Total	13	15	13	13	550	1400
Zinc, Total	16 B	24 B	22 B	11 B	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.31 J	0.18 J	0.34 J	0.16 J	2	---
Cadmium, TCLP	ND	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.014 J	0.097	0.013 J	0.058	0.65	---
Iron, TCLP	0.36	2.2	1.3	1.7	5	---
Lead, TCLP	ND	0.013	ND	0.0091	0.0075	---
Manganese, TCLP	0.33	0.029	0.076	0.14	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.031 J	0.086 J	0.031 J	0.069 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	ND	ND	ND	0.28 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.012 J	0.047	0.031	0.067	0.1	---
Cobalt, SPLP	ND	ND	ND	0.011 J	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	6.9 J	27	20	49	5	---
Lead, SPLP	0.0082 J	0.014	0.0087	0.015	0.0075	---
Manganese, SPLP	0.065 J	0.093	0.26	0.28	0.15	---
Mercury, SPLP	ND	0.00012 J	ND	0.00018 J	0.002	---
Nickel, SPLP	ND	0.02 J	0.015 J	0.041	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	0.021 J	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-5(0-6)-040814	VL1-5(6-10)-040814	VL1-6(0-5)-040814	VL1-6(5-10)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-5	VL1-5	VL1-6	VL1-6		
Depth	0 - 6	6 - 10	0 - 5	5 - 10		
Parameter						
Laboratory pH	7.87	7.43	7.00	7.17	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	1.7 J	1.7 J	1.8 J	2.1 J	11.3 / 13	61
Barium, Total	18	22	23	42	1500	14000
Beryllium, Total	0.18 J	0.23	0.17 J	0.29	22	410
Cadmium, Total	ND	0.015 J	0.013 J	0.064 J	5.2	200
Calcium, Total	1500 J-	1800 J-	1000 J-	2500 J-	---	---
Chromium, Total	6.6	8.9	5.8	12	21	690
Cobalt, Total	2.9	3	2.4	4.9	20	12000
Copper, Total	4.3	7	5.4	9.9	2900	8200
Iron, Total	6400 J+	7900 J+	6300 J+	11000 J+	15000 / 15900	---
Lead, Total	2.6 J	2.4 J	1.9 J	3.8 J	107	700
Magnesium, Total	1100 J+	1500 J+	800 J+	1900 J+	325000	730000
Manganese, Total	98 J	130 J	84 J	370 J	630 / 636	4100
Mercury, Total	0.011 J	0.013 J	ND	0.021	0.89	0.1
Nickel, Total	5.8	9.1	6.3	12	100	4100
Potassium, Total	340 J+	440 J+	390 J+	690 J+	---	---
Selenium, Total	ND	ND	ND	ND	1.3	1000
Silver, Total	ND	ND	ND	ND	4.4	1000
Sodium, Total	41 J	86	30 J	210	---	---
Thallium, Total	0.35 J	ND	ND	0.48 J	2.6	160
Vanadium, Total	13	14	12	20	550	1400
Zinc, Total	11 B	18 B	12 B	21 B	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.23 J	0.23 J	0.23 J	0.17 J	2	---
Cadmium, TCLP	ND	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.019 J	0.02 J	0.025	0.02 J	0.65	---
Iron, TCLP	0.86	1.7	0.66	1.1	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.31	0.25	0.039	0.11	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	0.013 J	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.059 J	0.043 J	0.037 J	0.036 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	0.013 J	ND	ND	0.05	---
Barium, SPLP	ND	0.34 J	ND	ND	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.014 J	0.08	0.02 J	0.032	0.1	---
Cobalt, SPLP	ND	0.017 J	ND	ND	1	---
Copper, SPLP	ND	0.093 B	ND	ND	0.65	---
Iron, SPLP	7.5	71	16	21	5	---
Lead, SPLP	0.0085	0.024	0.011	0.011	0.0075	---
Manganese, SPLP	0.096	1.1	0.21	0.2	0.15	---
Mercury, SPLP	ND	0.00018 J	ND	ND	0.002	---
Nickel, SPLP	ND	0.07	0.017 J	0.019 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	0.27 B	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-7(0-5)-040814	VL1-7(5-10)-040814	VL1-8(0-5)-040814	VL1-8(0-5)-040814D	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-7	VL1-7	VL1-8	VL1-8		
Depth	0 - 5	5 - 10	0 - 5	0 - 5		
Parameter						
Laboratory pH	7.24	7.32	6.95	6.64	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	1.6 J	1.2 J	1.7 J	1.8 J	11.3 / 13	61
Barium, Total	29	10	47	77	1500	14000
Beryllium, Total	0.24	0.094 J	0.28	0.29	22	410
Cadmium, Total	0.013 J	ND	0.1 J	0.073 J	5.2	200
Calcium, Total	2500 J-	920 J-	2500 J-	2400 J-	---	---
Chromium, Total	9.8	3.7	8.6	8.7	21	690
Cobalt, Total	3.1	2.3	4.5	4.2	20	12000
Copper, Total	8.4	4.5	6.4	5.4	2900	8200
Iron, Total	8000 J+	4100 J+	7300 J+	7700 J+	15000 / 15900	---
Lead, Total	2.9 J	1.2 J	12 J	7.4 J	107	700
Magnesium, Total	1300 J+	720 J+	940 J+	960 J+	325000	730000
Manganese, Total	92 J	66 J	240 J	540 J	630 / 636	4100
Mercury, Total	ND	ND	0.019 J	0.17 J	0.89	0.1
Nickel, Total	9.4	5	6.9	7.2	100	4100
Potassium, Total	510 J+	140 J+	640 J+	660 J+	---	---
Selenium, Total	ND	ND	0.25 J	ND	1.3	1000
Silver, Total	ND	ND	0.045 J	0.041 J	4.4	1000
Sodium, Total	42 J	69	28 J	26 J	---	---
Thallium, Total	ND	ND	0.25 J	0.46 J	2.6	160
Vanadium, Total	16	7.5	14	14	550	1400
Zinc, Total	17 B	7.4 B	38 B	32 B	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.17 J	0.13 J	0.5	0.45 J	2	---
Cadmium, TCLP	ND	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	0.029	0.013 J	1	---
Copper, TCLP	0.041	0.024 J	0.022 J	0.016 J	0.65	---
Iron, TCLP	0.53	0.56	ND	ND	5	---
Lead, TCLP	ND	ND	0.0096	ND	0.0075	---
Manganese, TCLP	0.043	0.15	2.5	2.5	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.024 J	0.016 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.05 J	0.037 J	0.26	0.16	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	ND	ND	ND	ND	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.017 J	ND	0.018 J	0.036	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	9.2	1.3	11 J	22 J	5	---
Lead, SPLP	0.011	0.0076	0.032	0.026	0.0075	---
Manganese, SPLP	0.076	0.02 J	0.11	0.13	0.15	---
Mercury, SPLP	ND	ND	ND	0.00011 J	0.002	---
Nickel, SPLP	0.012 J	ND	0.012 J	0.021 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	ND	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-8(5-10)-040814	VL1-9(0-5)-040814	VL1-9(5-10)-040814	VL1-9(5-10)-040814D	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL1-8	VL1-9	VL1-9	VL1-9		
Depth	5 - 10	0 - 5	5 - 10	5 - 10		
Parameter						
Laboratory pH	6.88	8.54	8.54	8.58	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	1.2 J	ND	ND	5	82
Arsenic, Total	1.4 J	6.8 J	2.8 J	3.5 J	11.3 / 13	61
Barium, Total	20	55	38	31	1500	14000
Beryllium, Total	0.19 J	0.83 J	0.21 J	0.2 J	22	410
Cadmium, Total	ND	2 J-	0.32 J-	0.31 J-	5.2	200
Calcium, Total	1000 J-	19000 J	4900 J	6300 J	---	---
Chromium, Total	8.3	11 J	6 J	7 J	21	690
Cobalt, Total	2.8	7.5 J	4.9 J	2.6 J	20	12000
Copper, Total	5.9	27 J	7.5 J	7.4 J	2900	8200
Iron, Total	6500 J+	52000 J-	7900 J-	10000 J-	15000 / 15900	---
Lead, Total	2.2 J	58 J	15 J	12 J	107	700
Magnesium, Total	1100 J+	2400 J	2000 J	1300 J	325000	730000
Manganese, Total	64 J	470 J	160 J	120 J	630 / 636	4100
Mercury, Total	ND	0.24 J	ND	0.057 J	0.89	0.1
Nickel, Total	7	16 J-	6.6 J-	5.7 J-	100	4100
Potassium, Total	340 J+	640 J	420 J	490 J	---	---
Selenium, Total	ND	0.72 J-	0.43 J	0.61 J-	1.3	1000
Silver, Total	ND	0.11 J	ND	0.039 J	4.4	1000
Sodium, Total	37 J	1100 J	350 J	330 J	---	---
Thallium, Total	ND	0.91	ND	ND	2.6	160
Vanadium, Total	12	20 J	11 J	10 J	550	1400
Zinc, Total	14 B	110 J	35 J	23 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.14 J	0.37 J	0.45 J	0.5	2	---
Cadmium, TCLP	ND	0.0041 J	0.0025 J	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	0.011 J	ND	1	---
Copper, TCLP	0.058	ND	ND	0.014 J	0.65	---
Iron, TCLP	1.8	ND	ND	ND	5	---
Lead, TCLP	0.01	ND	ND	ND	0.0075	---
Manganese, TCLP	0.083	0.85	1.5	1.3	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.015 J	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.075 J	0.095 J	0.11	0.047 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	ND	0.097 J	0.13 J	0.14 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.035	0.025	0.019 J	0.017 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	ND	ND	ND	0.65	---
Iron, SPLP	22	23 J+	18 J+	11 J+	5	---
Lead, SPLP	0.014	0.074	0.04	0.03	0.0075	---
Manganese, SPLP	0.16	0.27	0.16	0.14	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	0.022 J	0.016 J	0.013 J	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	0.2 B	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-10(0-5)-040914	VL1-10(5-10)-040914	VL1-11(0-5)-040814	VL1-11(5-8)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/8/2014	4/8/2014		
Location ID	VL1-10	VL1-10	VL1-11	VL1-11		
Depth	0 - 5	5 - 10	0 - 5	5 - 8		
Parameter						
Laboratory pH	8.05	7.46	8.09	8.02	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	0.89 J	ND	0.7 J	ND	5	82
Arsenic, Total	14 J	1.4 J	6.1 J	4.2 J	11.3 / 13	61
Barium, Total	62	220	75 J-	76 J-	1500	14000
Beryllium, Total	0.44 J	0.4 J	0.55 J	0.56 J	22	410
Cadmium, Total	0.49 J-	0.24 J-	1.6 J	1.1 J	5.2	200
Calcium, Total	59000 J	4000 J	130000 J	28000 J	---	---
Chromium, Total	13 J	15 J	17	13	21	690
Cobalt, Total	6.3 J	8 J	5.5	5	20	12000
Copper, Total	23 J-	7.4 J-	41 J	24 J	2900	8200
Iron, Total	30000 J	14000 J	31000 J	15000 J	15000 / 15900	---
Lead, Total	30 J	6.3 J	90 J	67 J	107	700
Magnesium, Total	1200 J	2400 J	3100 J	1500 J	325000	730000
Manganese, Total	980 J	790 J	1500 J	370 J	630 / 636	4100
Mercury, Total	0.05	0.034	0.098 J	0.72 J	0.89	0.1
Nickel, Total	15 J	19 J	23	11	100	4100
Potassium, Total	940 J+	1000 J+	910 J+	870 J+	---	---
Selenium, Total	ND	ND	1.6 J-	0.92 J-	1.3	1000
Silver, Total	0.082 J	ND	0.17 J	0.05 J	4.4	1000
Sodium, Total	280	130	240 J	160 J	---	---
Thallium, Total	0.56 J	0.81	0.66 J-	0.29 J	2.6	160
Vanadium, Total	28	18	16	15	550	1400
Zinc, Total	76 J-	37 J-	130 J	160 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.36 J	1.6	0.56	0.5	2	---
Cadmium, TCLP	ND	0.0042 J	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	0.057	ND	ND	1	---
Copper, TCLP	0.024 J	0.045	ND	ND	0.65	---
Iron, TCLP	ND	0.22	ND	ND	5	---
Lead, TCLP	ND	0.0076	ND	ND	0.0075	---
Manganese, TCLP	2.6	54	0.84	0.013 J	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.017 J	0.069	0.014 J	ND	0.1	---
Selenium, TCLP	ND	ND	ND	0.01 J	0.05	---
Zinc, TCLP	0.092 J	0.074 J	ND	ND	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.064 J	0.29 J	0.063 J	0.14 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	0.022 J	0.012 J	0.021 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.018 J	0.035	ND	ND	0.65	---
Iron, SPLP	2.4 J+	19 J+	2.8 J+	14 J+	5	---
Lead, SPLP	0.0079	0.013	0.022	0.056	0.0075	---
Manganese, SPLP	0.095	0.65	ND	0.18 B	0.15	---
Mercury, SPLP	ND	ND	ND	0.00016 J	0.002	---
Nickel, SPLP	ND	0.021 J	0.013 J	0.017 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.044 J	0.066 J	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-12(0-5)-040814	VL1-13(0-5)-040914	VL1-13(5-10)-040914	VL1-14(0-5)-040914	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-12	VL1-13	VL1-13	VL1-14		
Depth	0 - 5	0 - 5	5 - 10	0 - 5		
Parameter						
Laboratory pH	7.15	8.44	9.63	8.71	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	1.5 J-	ND	ND	ND	5	82
Arsenic, Total	21 J	5.2 J	0.95 J	5.4	11.3 / 13	61
Barium, Total	120 J-	67	23	73	1500	14000
Beryllium, Total	0.85 J	0.48 J	0.11 J	0.81 J	22	410
Cadmium, Total	2.8 J	0.43 J-	0.093 J	0.37 J	5.2	200
Calcium, Total	14000 J	36000 J	7600 J	140000	---	---
Chromium, Total	17	12 J	5.4 J	25	21	690
Cobalt, Total	6.7	8.6 J	4.1 J	4.5	20	12000
Copper, Total	60 J	11 J-	6.7 J-	57	2900	8200
Iron, Total	130000 J	23000 J	5200 J	21000	15000 / 15900	---
Lead, Total	130 J	7.7 J	8.2 J	62 B	107	700
Magnesium, Total	4900 J	10000 J	2300 J	7100 B	325000	730000
Manganese, Total	620 J	920 J	280 J	1400	630 / 636	4100
Mercury, Total	0.94 J	0.022	0.43	0.053	0.89	0.1
Nickel, Total	14	17 J	12 J	28	100	4100
Potassium, Total	610 J+	890 J+	190 J+	900	---	---
Selenium, Total	3.5 J-	ND	ND	1.9 J	1.3	1000
Silver, Total	0.37	ND	ND	0.1 J	4.4	1000
Sodium, Total	150 J	110	56	310	---	---
Thallium, Total	1.2 J-	0.68	0.34 J	ND	2.6	160
Vanadium, Total	30	21	9.5	19	550	1400
Zinc, Total	260 J	34 J-	17 J-	94	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.7	0.58	0.3 J	0.25 J	2	---
Cadmium, TCLP	0.0045 J	ND	0.0025 J	0.0022 J	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	0.038	ND	ND	ND	1	---
Copper, TCLP	ND	0.029	0.026	0.016 J	0.65	---
Iron, TCLP	1.6 B	ND	ND	0.47	5	---
Lead, TCLP	0.037	ND	ND	ND	0.0075	---
Manganese, TCLP	4.1	1.1	1	1.5 B	0.15	---
Mercury, TCLP	ND	ND	0.00012 J	ND	0.002	---
Nickel, TCLP	0.06	ND	0.023 J	0.055	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	1.6 B	0.045 J	0.1	ND	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.065 J	0.085 J	ND	0.068 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	0.013 J	ND	0.015 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	0.03	0.023 J	0.036	0.65	---
Iron, SPLP	0.33 J+	7.7 J+	ND	6.8	5	---
Lead, SPLP	0.0085	0.0078	ND	0.042	0.0075	---
Manganese, SPLP	0.16 B	0.06	ND	0.1	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	ND	ND	ND	0.016 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	0.055 J	0.031 J	0.077 J	5	---

See notes on page 4-136



**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-14(5-7)-040914	VL1-15(0-5)-040914	VL1-15(5-7)-040914	VL1-16(0-5)-040914	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-14	VL1-15	VL1-15	VL1-16		
Depth	5 - 7	0 - 5	5 - 7	0 - 5		
Parameter						
Laboratory pH	8.08	8.25	8.16	8.93	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	1.5	0.47 J	ND	5	82
Arsenic, Total	1.8	5.9	4.7	4.1 J	11.3 / 13	61
Barium, Total	52	110	97	62	1500	14000
Beryllium, Total	0.3	0.77	0.73	0.49 J	22	410
Cadmium, Total	0.24	0.88	0.47	0.39 J-	5.2	200
Calcium, Total	26000	6400	5200	19000 J	---	---
Chromium, Total	8.9	18	19	12 J	21	690
Cobalt, Total	3.4	7.5	5.9	3.5 J	20	12000
Copper, Total	10	39	22	14 J-	2900	8200
Iron, Total	9400	24000	20000	17000 J	15000 / 15900	---
Lead, Total	11 B	110 B	61 B	30 J	107	700
Magnesium, Total	1100	3200	3500	4700 J	325000	730000
Manganese, Total	530	380	250	1800 J	630 / 636	4100
Mercury, Total	0.027	0.41	0.39	0.012 J	0.89	0.1
Nickel, Total	8.2	21	17	19 J	100	4100
Potassium, Total	680	1300	1300	900 J+	---	---
Selenium, Total	ND	0.31 J	ND	ND	1.3	1000
Silver, Total	ND	ND	0.071 J	0.062 J	4.4	1000
Sodium, Total	99	140	100	260	---	---
Thallium, Total	0.43 J	0.46 J	0.32 J	1.3	2.6	160
Vanadium, Total	13	27	27	23	550	1400
Zinc, Total	46	200	120	45 J-	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	0.017 J	ND	ND	0.05	---
Barium, TCLP	0.58	0.56	0.43 J	0.58	2	---
Cadmium, TCLP	0.0021 J	0.006	0.0023 J	0.0068	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.032	0.021 J	0.036	0.021 J	0.65	---
Iron, TCLP	ND	0.4	0.52	ND	5	---
Lead, TCLP	ND	1.3	0.019	ND	0.0075	---
Manganese, TCLP	1.7 B	0.87 B	0.27 B	0.76	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	0.017 J	ND	0.031	0.1	---
Selenium, TCLP	0.011 J	ND	ND	ND	0.05	---
Zinc, TCLP	ND	0.95 B	0.29 B	0.04 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.11 J	0.16 J	0.16 J	0.17 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.011 J	0.019 J	0.013 J	0.033	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.014 J	0.033	0.027	0.042	0.65	---
Iron, SPLP	5	10	6.6	24 J+	5	---
Lead, SPLP	0.011	0.11	0.054	0.019	0.0075	---
Manganese, SPLP	0.081	0.082	0.11	0.21	0.15	---
Mercury, SPLP	ND	0.0002	0.00051	ND	0.002	---
Nickel, SPLP	ND	0.011 J	ND	0.036	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.064 J	0.21	0.16	0.096 J	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-16(5-10)-040914	VL1-17(0-5)-040914	VL1-17(0-5)-040914D	VL1-17(5-9)-040914	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-16	VL1-17	VL1-17	VL1-17		
Depth	5 - 10	0 - 5	0 - 5	5 - 9		
Parameter						
Laboratory pH	8.1	7.95	7.43	7.4	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	1.3	1.5	ND	5	82
Arsenic, Total	2.3 J	7.5	11	3.3	11.3 / 13	61
Barium, Total	110	79	76	42	1500	14000
Beryllium, Total	0.58 J	0.62	0.47	0.18 J	22	410
Cadmium, Total	0.28 J-	1.4	1.5	0.13 J	5.2	200
Calcium, Total	4100 J	9000	9700	10000	---	---
Chromium, Total	18 J	19	22	5.8	21	690
Cobalt, Total	6.7 J	13	9.6	3.7	20	12000
Copper, Total	13 J-	170	210	7.1	2900	8200
Iron, Total	20000 J	130000	100000	10000	15000 / 15900	---
Lead, Total	8.6 J	40 B	45 B	9.5 B	107	700
Magnesium, Total	3300 J	2700	2100	1800	325000	730000
Manganese, Total	440 J	1900 J	580 J	270	630 / 636	4100
Mercury, Total	0.032	0.28	0.23	0.03	0.89	0.1
Nickel, Total	15 J	24	20	7.4	100	4100
Potassium, Total	1500 J+	550	700	370	---	---
Selenium, Total	0.3 J	ND	0.22 J	0.49 J	1.3	1000
Silver, Total	ND	0.13 J	0.071 J	ND	4.4	1000
Sodium, Total	74	120	130	87	---	---
Thallium, Total	0.34 J	0.94	0.53 J	ND	2.6	160
Vanadium, Total	22	16	18	9	550	1400
Zinc, Total	54 J-	250	270	40	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.42 J	0.88	0.79	0.53	2	---
Cadmium, TCLP	ND	0.0099	0.0081	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	0.02 J	0.025	0.022 J	0.016 J	1	---
Copper, TCLP	0.05	0.14	0.097	ND	0.65	---
Iron, TCLP	1.1	ND	0.37	ND	5	---
Lead, TCLP	0.012	0.0084	ND	ND	0.0075	---
Manganese, TCLP	7.6	6.4 B	5.5 B	3.9 B	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.016 J	0.056	0.047	0.018 J	0.1	---
Selenium, TCLP	ND	0.011 J	ND	ND	0.05	---
Zinc, TCLP	0.096 J	1.7 B	1.4 B	0.18 B	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.28 J	0.14 J	0.12 J	0.086 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.012 J	0.019 J	0.012 J	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.031	0.077	0.072	0.024 J	0.65	---
Iron, SPLP	9.5 J+	11	9.2	2.2	5	---
Lead, SPLP	0.013	0.027	0.022	0.011	0.0075	---
Manganese, SPLP	1.2	0.17	0.13	0.12	0.15	---
Mercury, SPLP	0.00018 J	ND	ND	ND	0.002	---
Nickel, SPLP	0.01 J	0.014 J	0.01 J	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.061 J	0.2	0.13	0.059 J	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-18(0-5)-040914	VL1-18(0-5)-040914D	VL1-18(5-10)-040914	VL1-19(0-5)-040914	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/9/2014	4/9/2014	4/9/2014		
Location ID	VL1-18	VL1-18	VL1-18	VL1-19		
Depth	0 - 5	0 - 5	5 - 10	0 - 5		
Parameter						
Laboratory pH	8.71	8.69	8.16	8.85	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	4.5 J	4 J	2.9 J	3.8 J	11.3 / 13	61
Barium, Total	70	66	29	49	1500	14000
Beryllium, Total	0.35 J	0.34 J	0.48 J	0.34 J	22	410
Cadmium, Total	0.27 J-	0.25 J-	0.062 J	0.3 J-	5.2	200
Calcium, Total	23000 J	21000 J	9200 J	20000 J	---	---
Chromium, Total	12 J	12 J	52 J	33 J	21	690
Cobalt, Total	5.1 J	5.1 J	1.6 J	4.2 J	20	12000
Copper, Total	10 J-	10 J-	61 J-	56 J-	2900	8200
Iron, Total	12000 J	11000 J	15000 J	12000 J	15000 / 15900	---
Lead, Total	6.9 J	6 J	10 J	9.8 J	107	700
Magnesium, Total	12000 J	11000 J	710 J	8200 J	325000	730000
Manganese, Total	360 J	310 J	960 J	300 J	630 / 636	4100
Mercury, Total	0.018	0.024	0.012 J	0.011 J	0.89	0.1
Nickel, Total	13 J	12 J	7.1 J	31 J	100	4100
Potassium, Total	780 J+	740 J+	600 J+	1000 J+	---	---
Selenium, Total	ND	ND	0.22 J	ND	1.3	1000
Silver, Total	ND	ND	0.033 J	ND	4.4	1000
Sodium, Total	97	90	760	170	---	---
Thallium, Total	ND	ND	0.72	ND	2.6	160
Vanadium, Total	22	21	19	18	550	1400
Zinc, Total	26 J-	25 J-	11 J-	26 J-	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.84	0.81	0.15 J	0.45 J	2	---
Cadmium, TCLP	ND	ND	ND	0.0031 J	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.028	0.023 J	0.072	0.03	0.65	---
Iron, TCLP	0.3	ND	ND	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.23	0.26	0.78	0.55	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	ND	0.034	0.015 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.05 J	0.043 J	0.052 J	0.05 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.13 J	0.16 J	ND	0.1 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.016 J	0.015 J	ND	0.02 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.032	0.028	0.029	0.037	0.65	---
Iron, SPLP	9 J+	10 J+	0.81 J+	10 J+	5	---
Lead, SPLP	0.0083	0.0082	ND	0.0097	0.0075	---
Manganese, SPLP	0.057	0.081	0.015 J	0.059	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	ND	0.01 J	ND	0.013 J	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.067 J	0.06 J	0.045 J	0.065 J	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL1-19(5-10)-040914	VL2-1(0-5.5)-040714	VL2-2(0-5.5)-040714	VL2-3(0-5.5)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/9/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	VL1-19	VL2-1	VL2-2	VL2-3		
Depth	5 - 10	0 - 5.5	0 - 5.5	0 - 5.5		
Parameter						
Laboratory pH	8.09	7.42	7.58	8.15	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	ND	ND	5	82
Arsenic, Total	2.9 J	6.9 J	4.7 J	4.3 J	11.3 / 13	61
Barium, Total	23	83 J	76 J	110 J	1500	14000
Beryllium, Total	0.17 J	0.5 J	0.56 J	0.46 J	22	410
Cadmium, Total	0.15 J-	0.72 J	0.48 J	0.5 J	5.2	200
Calcium, Total	2300 J	13000 J	3500 J	5900 J	---	---
Chromium, Total	25 J	14 J+	23 J+	14 J+	21	690
Cobalt, Total	2 J	6.3 J	7 J	6.6 J	20	12000
Copper, Total	20 J-	23 J	20 J	14 J	2900	8200
Iron, Total	13000 J	16000 J	19000 J	15000 J	15000 / 15900	---
Lead, Total	13 J	80 J	7.8 J	32 J	107	700
Magnesium, Total	690 J	3400 J	3000 J	2300 J	325000	730000
Manganese, Total	170 J	460	400	720	630 / 636	4100
Mercury, Total	0.01 J	0.13 J	0.048 J	0.03 J	0.89	0.1
Nickel, Total	38 J	17 J	17 J	12 J	100	4100
Potassium, Total	290 J+	1100 J	1300 J	970 J	---	---
Selenium, Total	0.41 J	0.23 J	0.33 J	ND	1.3	1000
Silver, Total	ND	0.049 J	ND	0.029 J	4.4	1000
Sodium, Total	77	520 J	640 J	210 J	---	---
Thallium, Total	ND	0.61	0.63	0.73	2.6	160
Vanadium, Total	9.9	23	33	22	550	1400
Zinc, Total	26 J-	110 J	51 J	59 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.3 J	0.62	0.42 J	0.6	2	---
Cadmium, TCLP	ND	0.0029 J	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	0.013 J	ND	ND	ND	1	---
Copper, TCLP	0.04	0.014 J	0.017 J	ND	0.65	---
Iron, TCLP	4.9	ND	ND	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	1.7	0.97	0.067	0.28	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.11	0.011 J	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.13	0.22	0.034 J	0.027 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.055 J	ND	0.29 J	0.11 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	ND	ND	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.027	0.011 J	0.029	ND	0.65	---
Iron, SPLP	0.58 J+	0.23	2.2	0.55	5	---
Lead, SPLP	ND	ND	0.01	ND	0.0075	---
Manganese, SPLP	0.029	ND	0.091	0.019 J	0.15	---
Mercury, SPLP	ND	ND	0.00026	ND	0.002	---
Nickel, SPLP	ND	ND	ND	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.049 J	ND	0.039 J	0.022 J	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL2-3(0-5.5)-040714D	VL2-4(0-5.5)-040714	VL2-5(0-5.5)-040814	VL2-6(0-5.5)-040814	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/8/2014	4/8/2014		
Location ID	VL2-3	VL2-4	VL2-5	VL2-6		
Depth	0 - 5.5	0 - 5.5	0 - 5.5	0 - 5.5		
Parameter						
Laboratory pH	8.25	8.06	7.92	5.1	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	0.49 J	ND	ND	5	82
Arsenic, Total	4.4 J	5 J	3 J	3.9 J	11.3 / 13	61
Barium, Total	81 J	85 J	53 J	86 J	1500	14000
Beryllium, Total	0.43 J	0.44 J	0.36 J	0.67 J	22	410
Cadmium, Total	0.43 J	0.68 J	0.32 J	0.5 J	5.2	200
Calcium, Total	5000 J	14000 J	3300 J	2600 J	---	---
Chromium, Total	12 J+	11 J+	14 J+	33 J+	21	690
Cobalt, Total	5.9 J	5.5 J	5 J	6.5 J	20	12000
Copper, Total	12 J	36 J	15 J	26 J	2900	8200
Iron, Total	12000 J	17000 J	13000 J	23000 J	15000 / 15900	---
Lead, Total	27 J	74 J	9.7 J	6.4 J	107	700
Magnesium, Total	1900 J	5500 J	2000 J	4600 J	325000	730000
Manganese, Total	520	290	240	230	630 / 636	4100
Mercury, Total	0.029 J	0.23 J	0.021 J	0.025 J	0.89	0.1
Nickel, Total	13 J	12 J	12 J	18 J	100	4100
Potassium, Total	870 J	760 J	870 J	2000 J	---	---
Selenium, Total	0.28 J	0.26 J	0.21 J	0.23 J	1.3	1000
Silver, Total	0.02 J	0.04 J	ND	ND	4.4	1000
Sodium, Total	190 J	260 J	130 J	100 J	---	---
Thallium, Total	0.55	0.4 J	0.34 J	0.45 J	2.6	160
Vanadium, Total	21	19	23	42	550	1400
Zinc, Total	42 J	96 J	37 J	42 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.68	0.72	0.56	0.29 J	2	---
Cadmium, TCLP	ND	0.0025 J	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	ND	0.027	0.012 J	0.014 J	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	ND	ND	ND	ND	0.0075	---
Manganese, TCLP	0.25	3.2	0.34	0.13	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	0.026	ND	0.015 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.027 J	0.18	0.07 J	0.027 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.11 J	0.09 J	0.11 J	0.065 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	ND	ND	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.017 J	0.018 J	0.024 J	ND	0.65	---
Iron, SPLP	0.78	0.77	0.76	0.91	5	---
Lead, SPLP	ND	0.017	0.0094	ND	0.0075	---
Manganese, SPLP	0.019 J	0.038	0.025	0.021 J	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	ND	ND	ND	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.022 J	0.044 J	0.044 J	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL2-7(0-5.5)-040814	VL2-8(0-5)-040814	VL2-8(5-10)-040814	VL2-8(5-10)-040814D	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/8/2014		
Location ID	VL2-7	VL2-8	VL2-8	VL2-8		
Depth	0 - 5.5	0 - 5	5 - 10	5 - 10		
Parameter						
Laboratory pH	7.63	8.34	7.81	7.9	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	ND	9.2 J-	0.66 J	5	82
Arsenic, Total	3.5 J	6.5 J	6.3 J	6.4	11.3 / 13	61
Barium, Total	100 J-	66 J	92 J-	110	1500	14000
Beryllium, Total	0.89 J	0.48 J	0.86 J	0.78	22	410
Cadmium, Total	0.62 J	1.1 J	1.5 J	1.8	5.2	200
Calcium, Total	9700 J	32000 J	12000 J	92000	---	---
Chromium, Total	27	13 J+	13	12	21	690
Cobalt, Total	13	5.3 J	5.5	4.7	20	12000
Copper, Total	30 J	21 J	25 J	20	2900	8200
Iron, Total	23000 J	15000 J	22000 J	19000	15000 / 15900	---
Lead, Total	11 J	33 J	110 J	46	107	700
Magnesium, Total	6500 J	14000 J	1600 J	2300	325000	730000
Manganese, Total	360 J	330	1000 J	480 B	630 / 636	4100
Mercury, Total	0.017 J	0.036 J	0.087 J	0.1	0.89	0.1
Nickel, Total	24	14 J	13	12	100	4100
Potassium, Total	2400 J+	860 J	900 J+	1100	---	---
Selenium, Total	1.1 J-	ND	0.78 J-	0.47 J	1.3	1000
Silver, Total	ND	0.031 J	0.17 J	0.071 J	4.4	1000
Sodium, Total	360 J	260 J	260 J	330	---	---
Thallium, Total	0.41 J	0.51 J	1.1 J-	0.33 J	2.6	160
Vanadium, Total	40	20	18	18	550	1400
Zinc, Total	67 J	130 J	220 J	200	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.48 J	0.53	0.71	0.76	2	---
Cadmium, TCLP	ND	ND	0.0031 J	0.0033 J	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	0.026	0.02 J	1	---
Copper, TCLP	0.1 B	0.013 J	ND	0.011 JB	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	0.0088	ND	0.0088	ND	0.0075	---
Manganese, TCLP	0.43	0.022 J	7.3	8.7	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.015 J	ND	0.018 J	0.02 J	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	ND	0.09 J	0.57 B	0.53 B	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.079 J	0.12 J	0.091 J	0.096 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	ND	0.017 J	0.012 J	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	ND	0.022 J	ND	0.049 JB	0.65	---
Iron, SPLP	3.4 J+	1.6	10 J	4.3	5	---
Lead, SPLP	0.011	0.026	0.019	0.017	0.0075	---
Manganese, SPLP	ND	0.074	0.22 B	0.16 B	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	ND	ND	0.012 J	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	ND	0.12	ND	0.11 B	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	VL2-9(0-5)-040714	VL2-9(5-10)-040714	VL2-10(0-5)-040714	VL2-10(5-10)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	VL2-9	VL2-9	VL2-10	VL2-10		
Depth	0 - 5	5 - 10	0 - 5	5 - 10		
Parameter						
Laboratory pH	7.95	7.97	8.31	8.36	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	0.44 J	ND	ND	ND	5	82
Arsenic, Total	4.9	4.8	4.8 J	6.5 J	11.3 / 13	61
Barium, Total	95	88	44 J	47 J	1500	14000
Beryllium, Total	0.53	0.53	0.36 J	0.35 J	22	410
Cadmium, Total	0.74	0.51	0.28 J	0.47 J	5.2	200
Calcium, Total	5700	3700	2700 J	24000 J	---	---
Chromium, Total	11	18	14 J+	12 J+	21	690
Cobalt, Total	4.8	8.8	5.2 J	4.9 J	20	12000
Copper, Total	31	13	9.1 J	9.9 J	2900	8200
Iron, Total	16000	16000	14000 J	14000 J	15000 / 15900	---
Lead, Total	140 B	12 B	6.8 J	5.3 J	107	700
Magnesium, Total	1300	2400	1600 J	13000 J	325000	730000
Manganese, Total	300	590	260	180	630 / 636	4100
Mercury, Total	0.052	0.03	0.018 J	0.021 J	0.89	0.1
Nickel, Total	11	21	10 J	10 J	100	4100
Potassium, Total	830	1200	750 J	740 J	---	---
Selenium, Total	0.59	0.2 J	0.3 J	ND	1.3	1000
Silver, Total	0.044 J	ND	ND	ND	4.4	1000
Sodium, Total	140	100	130 J	220 J	---	---
Thallium, Total	0.38 J	0.69	0.51 J	ND	2.6	160
Vanadium, Total	17	27	24	21	550	1400
Zinc, Total	120	43	28 J	25 J	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.45 J	0.25 J	0.27 J	0.49 J	2	---
Cadmium, TCLP	0.0083	ND	ND	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	ND	ND	ND	1	---
Copper, TCLP	0.018 J	ND	ND	0.016 J	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	0.18	ND	ND	ND	0.0075	---
Manganese, TCLP	1.1	0.067	0.42	0.47	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	0.021 J	ND	ND	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	2	ND	ND	ND	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.08 J	0.081 J	0.12 J	0.054 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	0.019 J	ND	ND	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.027	0.02 J	0.013 J	0.014 J	0.65	---
Iron, SPLP	1.2	0.38	0.88	0.34	5	---
Lead, SPLP	0.14	ND	ND	ND	0.0075	---
Manganese, SPLP	0.23	0.014 J	0.046	ND	0.15	---
Mercury, SPLP	ND	ND	ND	ND	0.002	---
Nickel, SPLP	0.48	ND	ND	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.12	0.021 J	ND	ND	5	---

See notes on page 4-136

**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	WI-1(0-5.5)-040714	WP-1(0-4.9)-040714	WP-1(0-4.9)-040714D	WP-2(0-4.9)-040714	Soil Reference Concentrations <sup>A</sup>	Soil Remediation Objectives for Construction Workers <sup>B</sup>
Sample Date	4/7/2014	4/7/2014	4/7/2014	4/7/2014		
Location ID	WI-1	WP-1	WP-1	WP-2		
Depth	0 - 5.5	0 - 4.9	0 - 4.9	0 - 4.9		
Parameter						
Laboratory pH	7.94	8.19	8.43	8.48	<6.25,>9.0	---
<b>Total Metals (mg/kg)</b>						
Antimony, Total	ND	0.54 J	0.78 J	ND	5	82
Arsenic, Total	6	4.2	4	4.2	11.3 / 13	61
Barium, Total	68	72	60	59	1500	14000
Beryllium, Total	0.47	0.41	0.63	0.45	22	410
Cadmium, Total	0.59	0.5	1.1	0.68	5.2	200
Calcium, Total	8700	21000	93000	76000	---	---
Chromium, Total	15	9.1	10	13	21	690
Cobalt, Total	5.7	3.8	5	5	20	12000
Copper, Total	14	17	26	19	2900	8200
Iron, Total	15000	11000	16000	13000	15000 / 15900	---
Lead, Total	28 B	65 B	98 B	43 B	107	700
Magnesium, Total	5500	1800	4600	4900	325000	730000
Manganese, Total	430	250	380	400	630 / 636	4100
Mercury, Total	0.097	0.62	0.34	0.31	0.89	0.1
Nickel, Total	15	9.3	15	13	100	4100
Potassium, Total	1000	1100	1600	950	---	---
Selenium, Total	ND	0.33 J	ND	ND	1.3	1000
Silver, Total	ND	0.022 J	0.083 J	0.059 J	4.4	1000
Sodium, Total	160	390	520	390	---	---
Thallium, Total	0.56 J	0.29 J	0.35 J	0.49 J	2.6	160
Vanadium, Total	26	15	16	17	550	1400
Zinc, Total	58	88	170	73	5100	61000
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	0.05	---
Barium, TCLP	0.69	0.91	0.69	0.52	2	---
Cadmium, TCLP	ND	0.0053	0.0063	ND	0.005	---
Chromium, TCLP	ND	ND	ND	ND	0.1	---
Cobalt, TCLP	ND	0.025	ND	ND	1	---
Copper, TCLP	0.014 J	ND	0.011 J	ND	0.65	---
Iron, TCLP	ND	ND	ND	ND	5	---
Lead, TCLP	ND	0.04	0.039	ND	0.0075	---
Manganese, TCLP	0.12	6.7	3.3	0.63	0.15	---
Mercury, TCLP	ND	ND	ND	ND	0.002	---
Nickel, TCLP	ND	0.031	0.015 J	ND	0.1	---
Selenium, TCLP	ND	ND	ND	ND	0.05	---
Zinc, TCLP	0.11	0.74	0.58	0.068 J	5	---
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	ND	0.05	---
Barium, SPLP	0.17 J	0.097 J	0.1 J	0.19 J	2	---
Beryllium, SPLP	ND	ND	ND	ND	0.004	---
Cadmium, SPLP	ND	ND	ND	ND	0.005	---
Chromium, SPLP	ND	ND	ND	ND	0.1	---
Cobalt, SPLP	ND	ND	ND	ND	1	---
Copper, SPLP	0.017 J	0.015 J	0.023 J	0.032	0.65	---
Iron, SPLP	0.81	3.1	1.4	1.2	5	---
Lead, SPLP	0.037	0.052	0.1	0.057	0.0075	---
Manganese, SPLP	0.038	0.12	0.12	0.088	0.15	---
Mercury, SPLP	ND	ND	ND	0.00026	0.002	---
Nickel, SPLP	ND	ND	ND	ND	0.1	---
Selenium, SPLP	ND	ND	ND	ND	0.05	---
Silver, SPLP	ND	ND	ND	ND	0.05	---
Zinc, SPLP	0.092 J	0.1	0.12	0.11	5	---

See notes on page 4-136



**Table 4-3 (Continued)**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results - Inorganics**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - Soil reference concentrations from the MAC Table; the second value, if applicable, is the Background values for MSA counties.

<sup>B</sup> - Soil Remediation Objective for Construction Worker, most stringent of the *Ingestion or Inhalation* exposure route.


ND - Constituent not detected above the reporting limit.


B - Constituent detected in the blank and investigative sample.


J - Estimated concentration.

J- - Estimated concentration biased low.

J+ - Estimated concentration biased high.

 Shaded values indicate concentration **exceeds** Reference Concentration.

 Shaded values indicate concentration exceeds the Soil Remediation Objective for Construction Workers.

 Shaded values indicate concentration exceeds Reference Concentration and Soil Remediation Objective for Construction Workers.

**Table 4-4**  
**Comparison of Detected Constituents to Applicable TACO Screening Levels**  
**Groundwater Analytical Results**  
**Illinois Department of Transportation**  
**FAI 74: Interstate 74 from 19th Street to 23rd Street**  
**Moline, Rock Island County, Illinois**

Field Sample ID	CB-4-040814	MC-1-040814	SM-1-040814	SR-2-040714	SR-2-040714D	VL1-17-040914	TB-01-040714	TB-02-040814	Groundwater Remediation Objectives for Class 1 Groundwater
Sample Date	4/8/2014	4/8/2014	4/8/2014	4/7/2014	4/7/2014	4/9/2014	4/7/2014	4/8/2014	
Location ID	CB-4	MC-1	SM-1	SR-2	SR-2	VL1-17	TB-01	TB-02	
ISGS Site No	1314V2-6	1314V2-7	1314V2-8	1314V2-10	1314V2-10	1314V2-12	NA	NA	
Parameter									
<b>VOCs (ug/l)</b>									
Acetone	ND	ND	7.9	ND	ND	ND	ND	ND	6300
Benzene	ND	ND	ND	0.29 J	0.3 J	ND	ND	ND	5
Toluene	0.27 J	0.39 J	ND	0.35 J	ND	ND	ND	ND	1000
Trichloroethene	ND	ND	ND	0.25 J	ND	ND	ND	ND	5
<b>SVOCs (ug/l)</b>									
Acenaphthene	ND	ND	ND	ND	ND	5.8 J	na	na	420
Anthracene	ND	ND	ND	ND	ND	3.7 J	na	na	2100
Dibenzofuran	ND	ND	ND	ND	ND	2.5 J	na	na	---
Fluorene	ND	ND	ND	ND	ND	10	na	na	280
Phenanthrene	ND	ND	ND	ND	ND	16	na	na	---
<b>Total Metals (mg/l)</b>									
Antimony, Total	0.0017 J	ND	0.0011 J	0.0012 J	0.0012 J	0.0033	na	na	0.006
Arsenic, Total	0.21	0.25	0.01	0.04 J	0.092 J	0.041	na	na	0.05
Barium, Total	25	2.1	0.42	0.68 J	1.2 J	0.8	na	na	2
Beryllium, Total	0.0073	0.017	0.00066 J	0.00089 J	0.002 J	0.0025	na	na	0.004
Cadmium, Total	0.027	0.0053	0.00063	0.0014 J	0.0032 J	0.0039	na	na	0.005
Calcium, Total	610 B	620 B	300 B	410 B	430 B	230 B	na	na	---
Chromium, Total	0.16	0.49	0.019	0.038 J	0.071 J	0.1	na	na	0.1
Cobalt, Total	0.43	0.66	0.0091	0.035 J	0.077 J	0.036	na	na	1
Copper, Total	1	0.97	0.029	0.061 J	0.13 J	0.83	na	na	0.65
Iron, Total	880 B	640 B	29 B	69 J	150 J	160 B	na	na	5
Lead, Total	1.1 B	0.28 B	0.13 B	0.024 J	0.052 J	0.58 B	na	na	0.0075
Magnesium, Total	98 B	95 B	40 B	130 B	150 B	65 B	na	na	---
Manganese, Total	140	27	1.8	7.6 J	16 J	8.1	na	na	0.15
Mercury, Total	0.013	0.0014	0.0022	0.00016 J	0.0003	0.0014	na	na	0.002
Nickel, Total	2.1	1.6	0.02	0.098 J	0.21 J	0.084	na	na	0.1
Potassium, Total	8.6 J	20	14	8.5	8.9	15	na	na	---
Selenium, Total	0.037 J	0.062	0.0018 J	0.0033 J	0.006 J	0.0062	na	na	0.05
Silver, Total	0.0066	0.0015	0.00013 J	0.0003 J	0.00051	0.00058	na	na	0.05
Sodium, Total	130 B	430 B	120 B	500 B	530 B	28 B	na	na	--
Thallium, Total	0.0099	0.0073	ND	0.0014 J	0.0028	0.00053 J	na	na	0.002
Vanadium, Total	0.5	0.75	0.025	0.059 J	0.12 J	0.084	na	na	0.049
Zinc, Total	2.4	2.7	0.23	0.23 J	0.52 J	3.1	na	na	5
<b>PCBs</b>	None Detected								

**Notes:**

- - not applicable or value not available.
- na - Constituent not analyzed.
- ND - Constituent not detected above the reporting limit.
- J - Estimated concentration.
- B - Constituent detected in the blank and investigative samples.
- Shaded values indicate concentration **exceeds** Groundwater Remediation Objective for Class I

# F

## **Uncontaminated Soil Certification Forms (on CD-ROM)**