



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

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

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

Project Name: FAU 297 – US Route 6 at Gougar Road Office Phone Number, if available: _____

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

US Route 6 (Southwest Highway) at Gougar Road IDOT STA 193+00 to 200+00 (ISGS Site 2697-2)

City: Joliet/New Lenox State: IL Zip Code: 60432

County: Will Township: New Lenox

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

Latitude: 41.54767 Longitude: -88.00556
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 297 – US Route 6 at Gougar Road

Latitude: 41.54767 Longitude: -88.00556

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01, B06, B08 and B09 were sampled adjacent to ISGS Site No 2697-2. See Exhibits 2, 2A, 3, 3A and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated November 13, 2015.

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

STAT Analysis Corporation Report No 15080906-1, 15080947-1 and 15090956-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 16, 2015. CCDD/USFO facility in MSA County. Only boring listed above are certified.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 650 West Lake Street, Suite 420

City: Chicago State: IL Zip Code: 60661

Phone: (312) 443-2958

Richard O'Brien, P.E.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

November 13, 2015

Date:



P.E. or L.P.G. Seal:

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road - (PESA #2697-2)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 4 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-2-B04 (15-20)	2697-2-B05 (0-3)	2697-2-B06 (0-3)	2697-2-B07 (0-1.5)	2697-2-B08 (0-1.5)	2697-2-B09 (0-2.0)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL			CCDD	Sample Depth (feet)	(15-20)	(0-3)	(0-3)	(0-1.5)	(0-1.5)	(0-2.0)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I				mg/kg	Date Collected	08/25/2015	08/26/2015	08/26/2015	08/26/2015	08/24/2015	08/24/2015
							Chicago	MSAs	pH 6.25-9.0								
Vanadium, TCLP	mg/L	---	---	---	---	0.049	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Zinc, TCLP	mg/L	---	---	---	---	5	---	---	---		< 0.050	< 0.050	< 0.050	< 0.050	0.27	< 0.050	

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 04, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080906 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 2 samples for the referenced project on 8/24/2015 6:50:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080906 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080906-001A	2697-2-B08 (0-1.5)		8/24/2015 2:35:00 PM	8/24/2015
15080906-001B	2697-2-B08 (0-1.5)		8/24/2015 2:35:00 PM	8/24/2015
15080906-002A	2697-2-B09 (0-2.0)		8/24/2015 2:58:00 PM	8/24/2015
15080906-002B	2697-2-B09 (0-2.0)		8/24/2015 2:58:00 PM	8/24/2015

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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B08 (0-1.5)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	0.15	0.079		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0053		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0053		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0053		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.079		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.053		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0053		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0053		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0053		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0053		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0053		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0053		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0053		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.021		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0053		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0053		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0053		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0053		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0053		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0053		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0053		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0053		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0053		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B08 (0-1.5)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.40		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.99		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B08 (0-1.5)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.80		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.3		mg/Kg-dry	10	8/25/2015
Arsenic	9.1	1.1		mg/Kg-dry	10	8/25/2015
Barium	70	1.1		mg/Kg-dry	10	8/25/2015
Beryllium	0.77	0.56		mg/Kg-dry	10	8/26/2015
Cadmium	ND	0.56		mg/Kg-dry	10	8/25/2015
Calcium	63000	68		mg/Kg-dry	10	8/25/2015
Chromium	12	1.1		mg/Kg-dry	10	8/25/2015

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Client Sample ID: 2697-2-B08 (0-1.5)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	7.9	1.1		mg/Kg-dry	10	8/25/2015
Copper	36	2.8		mg/Kg-dry	10	8/25/2015
Iron	19000	34		mg/Kg-dry	10	8/25/2015
Lead	37	0.56		mg/Kg-dry	10	8/25/2015
Magnesium	36000	34		mg/Kg-dry	10	8/25/2015
Manganese	650	1.1		mg/Kg-dry	10	8/25/2015
Nickel	18	1.1		mg/Kg-dry	10	8/25/2015
Potassium	1200	34		mg/Kg-dry	10	8/25/2015
Selenium	2.2	1.1		mg/Kg-dry	10	8/25/2015
Silver	ND	1.1		mg/Kg-dry	10	8/25/2015
Sodium	560	68		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/25/2015
Vanadium	19	1.1		mg/Kg-dry	10	8/25/2015
Zinc	76	5.6		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Lead	0.010	0.0040		mg/L	2	9/3/2015
Manganese	0.065	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.51	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	180	10		mg/L	100	8/26/2015
Chromium	0.012	0.010		mg/L	5	8/26/2015
Cobalt	0.029	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	2.2	0.25		mg/L	5	8/26/2015
Lead	0.020	0.0050		mg/L	5	8/26/2015
Magnesium	60	0.25		mg/L	5	8/26/2015
Manganese	5.5	0.20		mg/L	100	8/26/2015
Nickel	0.039	0.020		mg/L	5	8/26/2015
Potassium	3.7	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B08 (0-1.5)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Zinc	0.27	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury	SW7471A			Prep Date: 8/25/2015		Analyst: LB
Mercury	0.032	0.024		mg/Kg-dry	1	8/25/2015
Cyanide, Leached	SW1312/9012A			Prep Date: 8/27/2015		Analyst: YZ
Cyanide	ND	0.0050		mg/L	1	8/27/2015
Cyanide, Total	SW9012A			Prep Date: 8/26/2015		Analyst: MD
Cyanide	ND	0.30		mg/Kg-dry	1	8/26/2015
pH (25 °C)	SW9045C			Prep Date: 8/25/2015		Analyst: GH
pH	7.0			pH Units	1	8/25/2015
Percent Moisture	D2974			Prep Date: 8/24/2015		Analyst: GH
Percent Moisture	16.4	0.2	*	wt%	1	8/25/2015

Qualifiers:
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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B09 (0-2.0)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:58:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.083		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0056		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0056		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.083		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.056		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0056		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.022		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0056		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0056		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0056		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.017		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.043		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.043		mg/Kg-dry	1	8/28/2015

Qualifiers:
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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B09 (0-2.0)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:58:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.43		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.043		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.043		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.043		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.043		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.043		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.043		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	1.1		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.22		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.43		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.043		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.043		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.22		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.22		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.22		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.22		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.43		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.043		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.043		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	8/28/2015

Qualifiers:

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B09 (0-2.0)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:58:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.043		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.043		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.22		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.043		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.22		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.22		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.22		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.043		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.22		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.43		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.043		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.043		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.22		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.087		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.043		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.22		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.043		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.87		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.4		mg/Kg-dry	10	8/25/2015
Arsenic	4.9	1.2		mg/Kg-dry	10	8/25/2015
Barium	110	1.2		mg/Kg-dry	10	8/25/2015
Beryllium	1.1	0.61		mg/Kg-dry	10	8/26/2015
Cadmium	0.61	0.61		mg/Kg-dry	10	8/25/2015
Calcium	7500	73		mg/Kg-dry	10	8/25/2015
Chromium	19	1.2		mg/Kg-dry	10	8/25/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B09 (0-2.0)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:58:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG
Cobalt	7.0	1.2		mg/Kg-dry	10	8/25/2015
Copper	27	3.1		mg/Kg-dry	10	8/25/2015
Iron	24000	37		mg/Kg-dry	10	8/25/2015
Lead	19	0.61		mg/Kg-dry	10	8/25/2015
Magnesium	5000	37		mg/Kg-dry	10	8/25/2015
Manganese	96	1.2		mg/Kg-dry	10	8/25/2015
Nickel	20	1.2		mg/Kg-dry	10	8/25/2015
Potassium	1600	37		mg/Kg-dry	10	8/25/2015
Selenium	3.2	1.2		mg/Kg-dry	10	8/25/2015
Silver	ND	1.2		mg/Kg-dry	10	8/25/2015
Sodium	560	73		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/25/2015
Vanadium	24	1.2		mg/Kg-dry	10	8/25/2015
Zinc	96	6.1		mg/Kg-dry	10	8/25/2015
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.16	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	77	10		mg/L	100	8/26/2015
Chromium	0.012	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	0.53	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	28	0.25		mg/L	5	8/26/2015
Manganese	ND	0.20		mg/L	100	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.7	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury		SW1311/7470A		Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015

Qualifiers:
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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B09 (0-2.0)

Work Order: 15080906 Revision 1

Collection Date: 8/24/2015 2:58:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080906-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7471A				Prep Date: 8/25/2015	Analyst: LB
Mercury	0.041	0.026		mg/Kg-dry	1	8/25/2015
Cyanide, Leached	SW1312/9012A				Prep Date: 8/27/2015	Analyst: YZ
Cyanide	ND	0.0050		mg/L	1	8/27/2015
Cyanide, Total	SW9012A				Prep Date: 8/26/2015	Analyst: MD
Cyanide	ND	0.33		mg/Kg-dry	1	8/26/2015
pH (25 °C)	SW9045C				Prep Date: 8/25/2015	Analyst: GH
pH	7.5			pH Units	1	8/25/2015
Percent Moisture	D2974				Prep Date: 8/24/2015	Analyst: GH
Percent Moisture	23.9	0.2	*	wt%	1	8/25/2015

Qualifiers:
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 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Sample Receipt Checklist

Client Name TERRACON-NAPERVILLE


Date and Time Received: 8/24/2015 6:50:00 PM

Work Order Number 15080906

Received by: DO

Checklist completed by: 
Signature

8/24/15
Date

Reviewed by: 
Initials

8/25/15
Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 2.7 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by:
- Water - Samples properly preserved? Yes No pH Adjusted?

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Wednesday, September 02, 2015 6:57 AM
To: Craig Chawla
Subject: Re: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080906

Regarding this order, please run the following on standard turnaround:

2697-2-B08(0-1.5). SPLP Lead; SPLP Manganese

Please confirm receipt.

Thanks

Richard

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 08, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080947 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 8 samples for the referenced project on 8/25/2015 6:55:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080947 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080947-001A	2697-2-B01 (0-4)		8/25/2015 1:20:00 PM	8/25/2015
15080947-001B	2697-2-B01 (0-4)		8/25/2015 1:20:00 PM	8/25/2015
15080947-002A	2697-2-B02 (0-4)		8/25/2015 1:35:00 PM	8/25/2015
15080947-002B	2697-2-B02 (0-4)		8/25/2015 1:35:00 PM	8/25/2015
15080947-003A	2697-2-B02 DUP (0-4)		8/25/2015 1:35:00 PM	8/25/2015
15080947-003B	2697-2-B02 DUP (0-4)		8/25/2015 1:35:00 PM	8/25/2015
15080947-004A	2697-2-B03 (0-3)		8/25/2015 1:45:00 PM	8/25/2015
15080947-004B	2697-2-B03 (0-3)		8/25/2015 1:45:00 PM	8/25/2015
15080947-005A	2697-2-B04 (0-5)		8/25/2015 9:15:00 AM	8/25/2015
15080947-005B	2697-2-B04 (0-5)		8/25/2015 9:15:00 AM	8/25/2015
15080947-006A	2697-2-B04 (5-10)		8/25/2015 9:20:00 AM	8/25/2015
15080947-006B	2697-2-B04 (5-10)		8/25/2015 9:20:00 AM	8/25/2015
15080947-007A	2697-2-B04 (10-15)		8/25/2015 9:25:00 AM	8/25/2015
15080947-007B	2697-2-B04 (10-15)		8/25/2015 9:25:00 AM	8/25/2015
15080947-008A	2697-2-B04 (15-20)		8/25/2015 9:35:00 AM	8/25/2015
15080947-008B	2697-2-B04 (15-20)		8/25/2015 9:35:00 AM	8/25/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B01 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:20:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.063		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0084		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.063		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.042		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0084		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0084		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0042		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0084		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0042		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Toluene	0.0057	0.0042		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0042		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B01 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:20:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.37		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.37		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.93		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.93		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.93		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B01 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:20:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.075		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.75		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.2		mg/Kg-dry	10	8/27/2015
Arsenic	11	1.1		mg/Kg-dry	10	8/26/2015
Barium	58	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.82	0.54		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.54		mg/Kg-dry	10	8/26/2015
Calcium	47000	65		mg/Kg-dry	10	8/26/2015
Chromium	14	1.1		mg/Kg-dry	10	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B01 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:20:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	10	1.1		mg/Kg-dry	10	8/26/2015
Copper	25	2.7		mg/Kg-dry	10	8/26/2015
Iron	23000	33		mg/Kg-dry	10	8/26/2015
Lead	14	0.54		mg/Kg-dry	10	8/26/2015
Magnesium	26000	33		mg/Kg-dry	10	8/26/2015
Manganese	550	1.1		mg/Kg-dry	10	8/26/2015
Nickel	29	1.1		mg/Kg-dry	10	8/26/2015
Potassium	1100	33		mg/Kg-dry	10	8/26/2015
Selenium	2.4	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	1100	65		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	18	1.1		mg/Kg-dry	10	8/26/2015
Zinc	68	5.4		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.26	0.040		mg/L	20	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.45	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	490	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	ND	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	120	0.25		mg/L	5	8/27/2015
Manganese	1.2	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	1.2	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

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Qualifiers: J - Analyte detected below quantitation limits

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E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B01 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:20:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A ND	0.023		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/31/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: YZ 8/28/2015
pH (25 °C) pH	SW9045C 8.2			pH Units	Prep Date: 8/26/2015 1	Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 11.5	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.079		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0053		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0053		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0053		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.079		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.053		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0053		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0053		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0053		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0053		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0053		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0053		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0053		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.021		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0053		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0053		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0053		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0053		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0053		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0053		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0053		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0053		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0053		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.042		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.042		mg/Kg-dry	1	8/31/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.43		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.042		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.042		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.42		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.042		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.042		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.042		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.042		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	1.1		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.22		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.042		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.042		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.22		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.22		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.22		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.22		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.42		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	8/31/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.042		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.042		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.22		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.042		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.22		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.22		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.22		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.042		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.22		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.42		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.042		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.042		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.22		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.086		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.042		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.22		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.042		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.86		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	8/31/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.5		mg/Kg-dry	10	8/27/2015
Arsenic	7.1	1.3		mg/Kg-dry	10	8/26/2015
Barium	120	1.3		mg/Kg-dry	10	8/26/2015
Beryllium	1.0	0.63		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.63		mg/Kg-dry	10	8/26/2015
Calcium	3700	76		mg/Kg-dry	10	8/26/2015
Chromium	14	1.3		mg/Kg-dry	10	8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Cobalt	12	1.3		mg/Kg-dry	10	8/26/2015
Copper	15	3.2		mg/Kg-dry	10	8/26/2015
Iron	19000	38		mg/Kg-dry	10	8/26/2015
Lead	18	0.63		mg/Kg-dry	10	8/26/2015
Magnesium	2300	38		mg/Kg-dry	10	8/26/2015
Manganese	1400	1.3		mg/Kg-dry	10	8/26/2015
Nickel	17	1.3		mg/Kg-dry	10	8/26/2015
Potassium	1200	38		mg/Kg-dry	10	8/26/2015
Selenium	2.5	1.3		mg/Kg-dry	10	8/26/2015
Silver	ND	1.3		mg/Kg-dry	10	8/26/2015
Sodium	1500	76		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.3		mg/Kg-dry	10	8/26/2015
Vanadium	25	1.3		mg/Kg-dry	10	8/26/2015
Zinc	51	6.3		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG	
Manganese	0.24	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.22	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	68	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	ND	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	0.29	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	18	0.25		mg/L	5	8/27/2015
Manganese	4.3	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	2.4	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.033	0.025		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.32		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: YZ 8/28/2015
pH (25 °C) pH	SW9045C 7.5			pH Units	Prep Date: 8/27/2015 1	Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 22.7	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 DUP (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.078		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0052		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0052		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0052		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.010		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.078		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.052		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0052		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0052		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.010		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0052		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.010		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0052		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0052		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0052		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0052		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0052		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.021		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.010		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0052		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0052		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0052		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0052		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0052		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0052		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0052		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0052		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0052		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.041		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 DUP (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.42		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.041		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 DUP (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.041		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.041		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.041		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.084		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.84		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.5		mg/Kg-dry	10	8/27/2015
Arsenic	9.1	1.2		mg/Kg-dry	10	8/26/2015
Barium	110	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	1.1	0.61		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.61		mg/Kg-dry	10	8/26/2015
Calcium	6600	74		mg/Kg-dry	10	8/26/2015
Chromium	14	1.2		mg/Kg-dry	10	8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B02 DUP (0-4)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	12	1.2		mg/Kg-dry	10	8/26/2015
Copper	18	3.1		mg/Kg-dry	10	8/26/2015
Iron	21000	37		mg/Kg-dry	10	8/26/2015
Lead	25	0.61		mg/Kg-dry	10	8/26/2015
Magnesium	4400	37		mg/Kg-dry	10	8/26/2015
Manganese	1100	1.2		mg/Kg-dry	10	8/26/2015
Nickel	19	1.2		mg/Kg-dry	10	8/26/2015
Potassium	1200	37		mg/Kg-dry	10	8/26/2015
Selenium	2.8	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	1500	74		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	25	1.2		mg/Kg-dry	10	8/26/2015
Zinc	61	6.1		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.45	0.020		mg/L	10	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.28	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	110	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	ND	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	43	0.25		mg/L	5	8/27/2015
Manganese	4.8	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	2.4	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Collection Date: 8/25/2015 1:35:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.033	0.024		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/31/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.31		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 7.3			pH Units	Prep Date: 8/27/2015 1	Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 20.6	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B03 (0-3)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.072		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0048		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0096		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.072		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0096		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0048		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0096		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0096		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.040		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B03 (0-3)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.40		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.40		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.040		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

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 H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B03 (0-3)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.040		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.040		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.040		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.040		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.040		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.80		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.4		mg/Kg-dry	10	8/27/2015
Arsenic	12	1.2		mg/Kg-dry	10	8/26/2015
Barium	94	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	0.96	0.60		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.60		mg/Kg-dry	10	8/26/2015
Calcium	4700	72		mg/Kg-dry	10	8/26/2015
Chromium	15	1.2		mg/Kg-dry	10	8/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B03 (0-3)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Cobalt	13	1.2		mg/Kg-dry	10	8/26/2015
Copper	21	3.0		mg/Kg-dry	10	8/26/2015
Iron	24000	36		mg/Kg-dry	10	8/26/2015
Lead	21	0.60		mg/Kg-dry	10	8/26/2015
Magnesium	4100	36		mg/Kg-dry	10	8/26/2015
Manganese	800	1.2		mg/Kg-dry	10	8/26/2015
Nickel	22	1.2		mg/Kg-dry	10	8/26/2015
Potassium	1100	36		mg/Kg-dry	10	8/26/2015
Selenium	2.2	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	760	72		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	25	1.2		mg/Kg-dry	10	8/26/2015
Zinc	60	6.0		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG	
Manganese	0.57	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.34	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	90	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.014	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	33	0.25		mg/L	5	8/27/2015
Manganese	6.5	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	2.0	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

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Qualifiers: J - Analyte detected below quantitation limits

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E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B03 (0-3)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.048	0.023		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/31/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 7.3			pH Units	Prep Date: 8/27/2015 1	Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 17.7	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (0-5)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	0.097	0.070		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0047		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0094		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.070		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.047		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0094		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0047		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0094		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0094		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (0-5)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.97		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Work Order: 15080947 Revision 1

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Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.078		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.78		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.2		mg/Kg-dry	10	8/27/2015
Arsenic	11	1.1		mg/Kg-dry	10	8/26/2015
Barium	91	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.89	0.56		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.56		mg/Kg-dry	10	8/26/2015
Calcium	41000	67		mg/Kg-dry	10	8/26/2015
Chromium	13	1.1		mg/Kg-dry	10	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (0-5)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	9.9	1.1		mg/Kg-dry	10	8/26/2015
Copper	23	2.8		mg/Kg-dry	10	8/26/2015
Iron	22000	33		mg/Kg-dry	10	8/26/2015
Lead	53	0.56		mg/Kg-dry	10	8/26/2015
Magnesium	23000	33		mg/Kg-dry	10	8/26/2015
Manganese	810	1.1		mg/Kg-dry	10	8/26/2015
Nickel	21	1.1		mg/Kg-dry	10	8/26/2015
Potassium	1300	33		mg/Kg-dry	10	8/26/2015
Selenium	2.6	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	2400	67		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	20	1.1		mg/Kg-dry	10	8/26/2015
Zinc	96	5.6		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.68	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.26	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	330	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	ND	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	160	0.25		mg/L	5	8/27/2015
Manganese	0.71	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	3.0	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (0-5)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.084	0.022		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/31/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 8.0			pH Units	Prep Date: 8/27/2015 1	Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 15.0	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (5-10)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.077		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0051		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0051		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0051		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.010		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.077		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.051		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0051		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0051		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.010		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0051		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.010		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0051		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0051		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0051		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0051		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.021		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.010		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0051		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0051		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0051		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0051		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0051		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0051		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0051		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0051		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/31/2015

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Client Sample ID: 2697-2-B04 (5-10)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.97		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

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ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (5-10)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.078		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.78		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.3		mg/Kg-dry	10	8/27/2015
Arsenic	8.8	1.2		mg/Kg-dry	10	8/26/2015
Barium	51	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	0.94	0.58		mg/Kg-dry	10	8/27/2015
Cadmium	0.74	0.58		mg/Kg-dry	10	8/27/2015
Calcium	59000	69		mg/Kg-dry	10	8/26/2015
Chromium	19	1.2		mg/Kg-dry	10	8/26/2015

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Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG
Cobalt	11	1.2		mg/Kg-dry	10	8/26/2015
Copper	22	2.9		mg/Kg-dry	10	8/26/2015
Iron	24000	35		mg/Kg-dry	10	8/26/2015
Lead	14	0.58		mg/Kg-dry	10	8/26/2015
Magnesium	24000	35		mg/Kg-dry	10	8/26/2015
Manganese	390	1.2		mg/Kg-dry	10	8/26/2015
Nickel	29	1.2		mg/Kg-dry	10	8/26/2015
Potassium	2100	35		mg/Kg-dry	10	8/26/2015
Selenium	2.3	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	1200	69		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	23	1.2		mg/Kg-dry	10	8/26/2015
Zinc	58	5.8		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS		SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG
Cadmium	ND	0.0050		mg/L	5	9/4/2015
Manganese	0.34	0.020		mg/L	10	9/4/2015
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.54	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	0.0055	0.0050		mg/L	5	8/27/2015
Calcium	1400	10		mg/L	100	8/30/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.037	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	270	0.25		mg/L	5	8/27/2015
Manganese	5.0	0.010		mg/L	5	8/27/2015
Nickel	0.043	0.020		mg/L	5	8/27/2015
Potassium	4.0	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015

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Lab ID: 15080947-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Zinc	ND	0.050		mg/L	5	8/27/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/26/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/26/2015
Mercury	SW7471A			Prep Date: 8/26/2015		Analyst: LB
Mercury	0.020	0.020		mg/Kg-dry	1	8/26/2015
Cyanide, Leached	SW1312/9012A			Prep Date: 8/31/2015		Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/31/2015
Cyanide, Total	SW9012A			Prep Date: 8/28/2015		Analyst: MD
Cyanide	ND	0.30		mg/Kg-dry	1	8/31/2015
pH (25 °C)	SW9045C			Prep Date: 8/27/2015		Analyst: GH
pH	8.3			pH Units	1	8/27/2015
Percent Moisture	D2974			Prep Date: 8/25/2015		Analyst: RW
Percent Moisture	15.6	0.2	*	wt%	1	8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (10-15)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:25:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS	
Acetone	ND	0.073		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0049		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0049		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0049		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0097		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.073		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.049		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0049		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0049		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0097		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0049		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0097		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0049		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0049		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0097		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0049		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0049		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0049		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0049		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0049		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0049		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (10-15)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:25:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (10-15)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:25:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.3		mg/Kg-dry	10	8/27/2015
Arsenic	7.1	1.2		mg/Kg-dry	10	8/26/2015
Barium	45	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	0.94	0.58		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.58		mg/Kg-dry	10	8/26/2015
Calcium	59000	69		mg/Kg-dry	10	8/26/2015
Chromium	20	1.2		mg/Kg-dry	10	8/26/2015

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (10-15)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:25:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Cobalt	8.5	1.2		mg/Kg-dry	10	8/26/2015
Copper	22	2.9		mg/Kg-dry	10	8/26/2015
Iron	23000	35		mg/Kg-dry	10	8/26/2015
Lead	14	0.58		mg/Kg-dry	10	8/26/2015
Magnesium	24000	35		mg/Kg-dry	10	8/26/2015
Manganese	370	1.2		mg/Kg-dry	10	8/26/2015
Nickel	26	1.2		mg/Kg-dry	10	8/26/2015
Potassium	2000	35		mg/Kg-dry	10	8/26/2015
Selenium	2.0	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	1100	69		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	22	1.2		mg/Kg-dry	10	8/26/2015
Zinc	54	5.8		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG	
Manganese	0.57	0.020		mg/L	10	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.32	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	1400	10		mg/L	100	8/30/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.033	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	260	0.25		mg/L	5	8/27/2015
Manganese	4.7	0.010		mg/L	5	8/27/2015
Nickel	0.024	0.020		mg/L	5	8/27/2015
Potassium	2.5	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (10-15)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:25:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Mercury Mercury	SW7471A ND	0.022		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/31/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 8.3			pH Units	Prep Date: 8/27/2015 1	Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 16.1	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (15-20)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:35:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.066		mg/Kg-dry	1	8/31/2015
Benzene	ND	0.0044		mg/Kg-dry	1	8/31/2015
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	8/31/2015
Bromoform	ND	0.0044		mg/Kg-dry	1	8/31/2015
Bromomethane	ND	0.0088		mg/Kg-dry	1	8/31/2015
2-Butanone	ND	0.066		mg/Kg-dry	1	8/31/2015
Carbon disulfide	ND	0.044		mg/Kg-dry	1	8/31/2015
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	8/31/2015
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	8/31/2015
Chloroethane	ND	0.0088		mg/Kg-dry	1	8/31/2015
Chloroform	ND	0.0044		mg/Kg-dry	1	8/31/2015
Chloromethane	ND	0.0088		mg/Kg-dry	1	8/31/2015
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/31/2015
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/31/2015
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/31/2015
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/31/2015
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	8/31/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2015
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	8/31/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/31/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/31/2015
Methylene chloride	ND	0.0088		mg/Kg-dry	1	8/31/2015
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	8/31/2015
Styrene	ND	0.0044		mg/Kg-dry	1	8/31/2015
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	8/31/2015
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	8/31/2015
Toluene	ND	0.0044		mg/Kg-dry	1	8/31/2015
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/31/2015
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/31/2015
Trichloroethene	ND	0.0044		mg/Kg-dry	1	8/31/2015
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	8/31/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/31/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/31/2015

Qualifiers:
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 HT - Sample received past holding time
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (15-20)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:35:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.95		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (15-20)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:35:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.3		mg/Kg-dry	10	8/27/2015
Arsenic	15	1.1		mg/Kg-dry	10	8/26/2015
Barium	24	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.68	0.57		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.57		mg/Kg-dry	10	8/26/2015
Calcium	91000	69		mg/Kg-dry	10	8/26/2015
Chromium	28	1.1		mg/Kg-dry	10	8/26/2015

Qualifiers:
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (15-20)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:35:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG
Cobalt	8.6	1.1		mg/Kg-dry	10	8/26/2015
Copper	33	2.9		mg/Kg-dry	10	8/26/2015
Iron	28000	34		mg/Kg-dry	10	8/26/2015
Lead	14	0.57		mg/Kg-dry	10	8/26/2015
Magnesium	51000	34		mg/Kg-dry	10	8/26/2015
Manganese	500	1.1		mg/Kg-dry	10	8/26/2015
Nickel	24	1.1		mg/Kg-dry	10	8/26/2015
Potassium	1500	34		mg/Kg-dry	10	8/26/2015
Selenium	3.8	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	340	69		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	17	1.1		mg/Kg-dry	10	8/26/2015
Zinc	82	5.7		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS		SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG
Manganese	0.042	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.12	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	380	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.011	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	140	0.25		mg/L	5	8/27/2015
Manganese	1.5	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	2.0	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B04 (15-20)

Work Order: 15080947 Revision 1

Collection Date: 8/25/2015 9:35:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080947-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/26/2015 Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.022	0.020		mg/Kg-dry	1	Prep Date: 8/26/2015 Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/31/2015 Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	1	Prep Date: 8/28/2015 Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 8.2			pH Units	1	Prep Date: 8/27/2015 Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 13.3	0.2	*	wt%	1	Prep Date: 8/25/2015 Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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R - RPD outside accepted recovery limits

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CHAIN OF CUSTODY RECORD

Company: <u>TERRACON</u>		Client Tracking No.:	
Project Number: <u>1157109</u>			
Project Name: <u>IDOT PAU 297</u>			
Project Location: <u>New Knox Hobart IL</u>			
Sampler(s): <u>Justin Williams</u>			
Report To: <u>Richard O'Brien</u>		Phone: <u>312-489-5501</u>	
QC Level: 1 2 3 4		Fax:	
Client Sample Number/Description:		Date Taken	Time Taken
2697-2-B01 (0-4)		8/25/15	1320
2697-2-B02 (0-4)		8/25/15	1335
2697-2-B02DNP (0-4)		8/25/15	1335
2697-2-B03 (0-3)		8/25/15	1345
2697-2-B04 (0-5)		8/25/15	0915
2697-2-B04 (5-10)		8/25/15	0920
2697-2-B04 (10-15)		8/25/15	0925
2697-2-B04 (15-20)		8/25/15	0935
Matrix		Comp.	Grab
S		X	X
S		X	X
S		X	X
S		X	X
S		X	X
S		X	X
S		X	X
S		X	X
No. of Containers		Preserv.	Remarks
4			
4			
4			
4			
4			
4			
4			
4			
Lab No.:		am/pm	
001			
002			
003			
004			
005			
006			
007			
008			
Results Needed:		Turn Around:	
		<u>Normal</u>	
Laboratory Work Order No.:		Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<u>15080947</u>		Temperature: <u>4.2</u> °C	
Comments:		Preservation Code: A = None B = HNO ₃ C = NaOH	
<u>8/25/15/185</u>		D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other	
Relinquished by: (Signature)		Date/Time: <u>8/25/15/185</u>	
Received by: (Signature)		Date/Time: <u>8/25/15/185</u>	
Relinquished by: (Signature)		Date/Time:	
Received by: (Signature)		Date/Time:	
Relinquished by: (Signature)		Date/Time:	
Received by: (Signature)		Date/Time:	


Sample Receipt Checklist

Client Name TERRACON-NAPERVILLE


Date and Time Received: 8/25/2015 6:55:00 PM

Work Order Number 15080947

Received by: DO

Checklist completed by: 
Signature

8/25/15
Date

Reviewed by:  8/26/15
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.2 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Wednesday, September 02, 2015 3:06 PM
To: Craig Chawla
Subject: RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080947

Hi Craig,

Regarding this project, please run the following on Standard turnaround:

Sample	SPLP Analysis
2697-2-B01 (0-4)	Manganese
2697-2-B02 (0-4)	Manganese
2697-2-B02 DUP (0-4)	Manganese
2697-2-B03 (0-3)	Manganese
2697-2-B04 (0-5)	Manganese
2697-2-B04 (5-10)	Manganese, Cadmium
2697-2-B04 (10-15)	Manganese
2697-2-B04 (15-20)	Manganese

Please confirm receipt.

Thanks,

Richard O'Brien, P.E.
Senior Project Engineer
Environmental Services

Terracon Consultants, Inc.

650 West Lake Street, Suite 420 | Chicago, IL 60661
P (312) 575-0014 | F (312) 575-0111 | C (312) 443-2958
rmobrien@terracon.com | terracon.com



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September 08, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080956 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 3 samples for the referenced project on 8/26/2015 11:53:00 AM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080956 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080956-001A	2697-2-B05 (0-3)		8/26/2015 9:50:00 AM	8/26/2015
15080956-001B	2697-2-B05 (0-3)		8/26/2015 9:50:00 AM	8/26/2015
15080956-002A	2697-2-B06 (0-3)		8/26/2015 9:20:00 AM	8/26/2015
15080956-002B	2697-2-B06 (0-3)		8/26/2015 9:20:00 AM	8/26/2015
15080956-003A	2697-2-B07 (0-1.5)		8/26/2015 8:40:00 AM	8/26/2015
15080956-003B	2697-2-B07 (0-1.5)		8/26/2015 8:40:00 AM	8/26/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B05 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.080		mg/Kg-dry	1	8/31/2015
Benzene	ND	0.0053		mg/Kg-dry	1	8/31/2015
Bromodichloromethane	ND	0.0053		mg/Kg-dry	1	8/31/2015
Bromoform	ND	0.0053		mg/Kg-dry	1	8/31/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/31/2015
2-Butanone	ND	0.080		mg/Kg-dry	1	8/31/2015
Carbon disulfide	ND	0.053		mg/Kg-dry	1	8/31/2015
Carbon tetrachloride	ND	0.0053		mg/Kg-dry	1	8/31/2015
Chlorobenzene	ND	0.0053		mg/Kg-dry	1	8/31/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/31/2015
Chloroform	ND	0.0053		mg/Kg-dry	1	8/31/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/31/2015
Dibromochloromethane	ND	0.0053		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethane	ND	0.0053		mg/Kg-dry	1	8/31/2015
1,2-Dichloroethane	ND	0.0053		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/31/2015
cis-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/31/2015
trans-1,2-Dichloroethene	ND	0.0053		mg/Kg-dry	1	8/31/2015
1,2-Dichloropropane	ND	0.0053		mg/Kg-dry	1	8/31/2015
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/31/2015
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/31/2015
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	8/31/2015
2-Hexanone	ND	0.021		mg/Kg-dry	1	8/31/2015
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	8/31/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/31/2015
Methyl tert-butyl ether	ND	0.0053		mg/Kg-dry	1	8/31/2015
Styrene	ND	0.0053		mg/Kg-dry	1	8/31/2015
1,1,2,2-Tetrachloroethane	ND	0.0053		mg/Kg-dry	1	8/31/2015
Tetrachloroethene	ND	0.0053		mg/Kg-dry	1	8/31/2015
Toluene	ND	0.0053		mg/Kg-dry	1	8/31/2015
1,1,1-Trichloroethane	ND	0.0053		mg/Kg-dry	1	8/31/2015
1,1,2-Trichloroethane	ND	0.0053		mg/Kg-dry	1	8/31/2015
Trichloroethene	ND	0.0053		mg/Kg-dry	1	8/31/2015
Vinyl chloride	ND	0.0053		mg/Kg-dry	1	8/31/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	8/31/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.041		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B05 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM	
Aniline	ND	0.41		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.041		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B05 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM
Fluoranthene	ND	0.041		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.041		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.041		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.041		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.083		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.041		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.83		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.4		mg/Kg-dry	10	8/26/2015
Arsenic	15	1.2		mg/Kg-dry	10	8/26/2015
Barium	130	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	1.3	0.60		mg/Kg-dry	10	8/26/2015
Cadmium	0.75	0.60		mg/Kg-dry	10	8/26/2015
Calcium	3700	72		mg/Kg-dry	10	8/26/2015
Chromium	26	1.2		mg/Kg-dry	10	8/26/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B05 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Cobalt	15	1.2		mg/Kg-dry	10	8/26/2015
Copper	26	3.0		mg/Kg-dry	10	8/26/2015
Iron	30000	36		mg/Kg-dry	10	8/26/2015
Lead	23	0.60		mg/Kg-dry	10	8/26/2015
Magnesium	5400	36		mg/Kg-dry	10	8/26/2015
Manganese	720	1.2		mg/Kg-dry	10	8/26/2015
Nickel	41	1.2		mg/Kg-dry	10	8/26/2015
Potassium	1900	36		mg/Kg-dry	10	8/26/2015
Selenium	1.4	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	2300	72		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	36	1.2		mg/Kg-dry	10	8/26/2015
Zinc	73	6.0		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG	
Manganese	0.20	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/30/2015
Arsenic	ND	0.010		mg/L	5	8/30/2015
Barium	0.33	0.050		mg/L	5	8/30/2015
Beryllium	ND	0.0050		mg/L	5	8/30/2015
Cadmium	ND	0.0050		mg/L	5	8/30/2015
Calcium	140	10		mg/L	100	8/31/2015
Chromium	ND	0.010		mg/L	5	8/30/2015
Cobalt	ND	0.010		mg/L	5	8/30/2015
Copper	ND	0.10		mg/L	5	8/31/2015
Iron	0.54	0.25		mg/L	5	8/30/2015
Lead	ND	0.0050		mg/L	5	8/30/2015
Magnesium	46	0.25		mg/L	5	8/31/2015
Manganese	0.50	0.010		mg/L	5	8/30/2015
Nickel	ND	0.020		mg/L	5	8/30/2015
Potassium	1.3	0.25		mg/L	5	8/30/2015
Selenium	ND	0.010		mg/L	5	8/30/2015
Silver	ND	0.010		mg/L	5	8/30/2015
Thallium	ND	0.0050		mg/L	5	8/30/2015
Vanadium	ND	0.010		mg/L	5	8/30/2015
Zinc	ND	0.050		mg/L	5	8/30/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B05 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/28/2015 Analyst: LB 8/28/2015
Mercury Mercury	SW7471A 0.045	0.023		mg/Kg-dry	1	Prep Date: 8/26/2015 Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/31/2015 Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.31		mg/Kg-dry	1	Prep Date: 8/28/2015 Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 7.6			pH Units	1	Prep Date: 8/27/2015 Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 20.6	0.2	*	wt%	1	Prep Date: 8/26/2015 Analyst: GH 8/27/2015

Qualifiers:

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HT - Sample received past holding time

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B06 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.090		mg/Kg-dry	1	8/31/2015
Benzene	ND	0.0060		mg/Kg-dry	1	8/31/2015
Bromodichloromethane	ND	0.0060		mg/Kg-dry	1	8/31/2015
Bromoform	ND	0.0060		mg/Kg-dry	1	8/31/2015
Bromomethane	ND	0.012		mg/Kg-dry	1	8/31/2015
2-Butanone	ND	0.090		mg/Kg-dry	1	8/31/2015
Carbon disulfide	ND	0.060		mg/Kg-dry	1	8/31/2015
Carbon tetrachloride	ND	0.0060		mg/Kg-dry	1	8/31/2015
Chlorobenzene	ND	0.0060		mg/Kg-dry	1	8/31/2015
Chloroethane	ND	0.012		mg/Kg-dry	1	8/31/2015
Chloroform	ND	0.0060		mg/Kg-dry	1	8/31/2015
Chloromethane	ND	0.012		mg/Kg-dry	1	8/31/2015
Dibromochloromethane	ND	0.0060		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethane	ND	0.0060		mg/Kg-dry	1	8/31/2015
1,2-Dichloroethane	ND	0.0060		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethene	ND	0.0060		mg/Kg-dry	1	8/31/2015
cis-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	8/31/2015
trans-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	8/31/2015
1,2-Dichloropropane	ND	0.0060		mg/Kg-dry	1	8/31/2015
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	8/31/2015
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	8/31/2015
Ethylbenzene	ND	0.0060		mg/Kg-dry	1	8/31/2015
2-Hexanone	ND	0.024		mg/Kg-dry	1	8/31/2015
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	8/31/2015
Methylene chloride	ND	0.012		mg/Kg-dry	1	8/31/2015
Methyl tert-butyl ether	ND	0.0060		mg/Kg-dry	1	8/31/2015
Styrene	ND	0.0060		mg/Kg-dry	1	8/31/2015
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/Kg-dry	1	8/31/2015
Tetrachloroethene	ND	0.0060		mg/Kg-dry	1	8/31/2015
Toluene	ND	0.0060		mg/Kg-dry	1	8/31/2015
1,1,1-Trichloroethane	ND	0.0060		mg/Kg-dry	1	8/31/2015
1,1,2-Trichloroethane	ND	0.0060		mg/Kg-dry	1	8/31/2015
Trichloroethene	ND	0.0060		mg/Kg-dry	1	8/31/2015
Vinyl chloride	ND	0.0060		mg/Kg-dry	1	8/31/2015
Xylenes, Total	ND	0.018		mg/Kg-dry	1	8/31/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM
Acenaphthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.045		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B06 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM	
Aniline	ND	0.45		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.45		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	1.1		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.23		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.45		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.045		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.045		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.23		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.45		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.045		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.045		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B06 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM
Fluoranthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.045		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.23		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.045		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.45		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.045		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.045		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.23		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.23		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.091		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.91		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.7		mg/Kg-dry	10	8/26/2015
Arsenic	13	1.3		mg/Kg-dry	10	8/26/2015
Barium	120	1.3		mg/Kg-dry	10	8/26/2015
Beryllium	1.2	0.67		mg/Kg-dry	10	8/26/2015
Cadmium	0.97	0.67		mg/Kg-dry	10	8/26/2015
Calcium	16000	81		mg/Kg-dry	10	8/26/2015
Chromium	20	1.3		mg/Kg-dry	10	8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B06 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	12	1.3		mg/Kg-dry	10	8/26/2015
Copper	26	3.4		mg/Kg-dry	10	8/26/2015
Iron	23000	40		mg/Kg-dry	10	8/26/2015
Lead	31	0.67		mg/Kg-dry	10	8/26/2015
Magnesium	9800	40		mg/Kg-dry	10	8/26/2015
Manganese	630	1.3		mg/Kg-dry	10	8/26/2015
Nickel	27	1.3		mg/Kg-dry	10	8/26/2015
Potassium	1500	40		mg/Kg-dry	10	8/26/2015
Selenium	1.5	1.3		mg/Kg-dry	10	8/26/2015
Silver	ND	1.3		mg/Kg-dry	10	8/26/2015
Sodium	2200	81		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.3		mg/Kg-dry	10	8/26/2015
Vanadium	29	1.3		mg/Kg-dry	10	8/26/2015
Zinc	83	6.7		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.24	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/30/2015
Arsenic	ND	0.010		mg/L	5	8/30/2015
Barium	0.25	0.050		mg/L	5	8/30/2015
Beryllium	ND	0.0050		mg/L	5	8/30/2015
Cadmium	ND	0.0050		mg/L	5	8/30/2015
Calcium	120	10		mg/L	100	8/31/2015
Chromium	ND	0.010		mg/L	5	8/30/2015
Cobalt	ND	0.010		mg/L	5	8/30/2015
Copper	ND	0.10		mg/L	5	8/31/2015
Iron	0.51	0.25		mg/L	5	8/30/2015
Lead	ND	0.0050		mg/L	5	8/30/2015
Magnesium	45	0.25		mg/L	5	8/31/2015
Manganese	1.4	0.010		mg/L	5	8/30/2015
Nickel	ND	0.020		mg/L	5	8/30/2015
Potassium	2.1	0.25		mg/L	5	8/30/2015
Selenium	ND	0.010		mg/L	5	8/30/2015
Silver	ND	0.010		mg/L	5	8/30/2015
Thallium	ND	0.0050		mg/L	5	8/30/2015
Vanadium	ND	0.010		mg/L	5	8/30/2015
Zinc	ND	0.050		mg/L	5	8/30/2015

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Qualifiers: J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B06 (0-3)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 9:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/28/2015 1	Analyst: LB 8/31/2015
Mercury Mercury	SW7471A 0.041	0.024		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/31/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.34		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 7.2			pH Units	Prep Date: 8/27/2015 1	Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 27.0	0.2	*	wt%	Prep Date: 8/26/2015 1	Analyst: GH 8/27/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B07 (0-1.5)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 8:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.083		mg/Kg-dry	1	8/31/2015
Benzene	ND	0.0055		mg/Kg-dry	1	8/31/2015
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	8/31/2015
Bromoform	ND	0.0055		mg/Kg-dry	1	8/31/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/31/2015
2-Butanone	ND	0.083		mg/Kg-dry	1	8/31/2015
Carbon disulfide	ND	0.055		mg/Kg-dry	1	8/31/2015
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	8/31/2015
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	8/31/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/31/2015
Chloroform	ND	0.0055		mg/Kg-dry	1	8/31/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/31/2015
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	8/31/2015
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	8/31/2015
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	8/31/2015
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	8/31/2015
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	8/31/2015
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/31/2015
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/31/2015
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	8/31/2015
2-Hexanone	ND	0.022		mg/Kg-dry	1	8/31/2015
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	8/31/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/31/2015
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	8/31/2015
Styrene	ND	0.0055		mg/Kg-dry	1	8/31/2015
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	8/31/2015
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	8/31/2015
Toluene	ND	0.0055		mg/Kg-dry	1	8/31/2015
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	8/31/2015
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	8/31/2015
Trichloroethene	ND	0.0055		mg/Kg-dry	1	8/31/2015
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	8/31/2015
Xylenes, Total	ND	0.017		mg/Kg-dry	1	8/31/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/31/2015

Qualifiers:
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 J - Analyte detected below quantitation limits
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B07 (0-1.5)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 8:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/28/2015		Analyst: DM	
Aniline	ND	0.40		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.99		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B07 (0-1.5)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 8:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/28/2015	Analyst: DM
---	-------------------	--	--	--	----------------------	-------------

Fluoranthene	ND	0.039		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.80		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/26/2015	Analyst: JG
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Antimony	ND	2.3		mg/Kg-dry	10	8/26/2015
Arsenic	14	1.2		mg/Kg-dry	10	8/26/2015
Barium	100	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	1.1	0.58		mg/Kg-dry	10	8/26/2015
Cadmium	0.84	0.58		mg/Kg-dry	10	8/26/2015
Calcium	25000	70		mg/Kg-dry	10	8/26/2015
Chromium	18	1.2		mg/Kg-dry	10	8/26/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B07 (0-1.5)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 8:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	12	1.2		mg/Kg-dry	10	8/26/2015
Copper	21	2.9		mg/Kg-dry	10	8/26/2015
Iron	23000	35		mg/Kg-dry	10	8/26/2015
Lead	31	0.58		mg/Kg-dry	10	8/26/2015
Magnesium	15000	35		mg/Kg-dry	10	8/26/2015
Manganese	630	1.2		mg/Kg-dry	10	8/26/2015
Nickel	26	1.2		mg/Kg-dry	10	8/26/2015
Potassium	1500	35		mg/Kg-dry	10	8/26/2015
Selenium	ND	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	1600	70		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	28	1.2		mg/Kg-dry	10	8/26/2015
Zinc	78	5.8		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.28	0.0080		mg/L	4	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/30/2015
Arsenic	ND	0.010		mg/L	5	8/30/2015
Barium	0.38	0.050		mg/L	5	8/30/2015
Beryllium	ND	0.0050		mg/L	5	8/30/2015
Cadmium	ND	0.0050		mg/L	5	8/30/2015
Calcium	400	10		mg/L	100	8/31/2015
Chromium	ND	0.010		mg/L	5	8/30/2015
Cobalt	ND	0.010		mg/L	5	8/30/2015
Copper	ND	0.10		mg/L	5	8/31/2015
Iron	1.4	0.25		mg/L	5	8/30/2015
Lead	ND	0.0050		mg/L	5	8/30/2015
Magnesium	140	0.25		mg/L	5	8/31/2015
Manganese	1.8	0.010		mg/L	5	8/30/2015
Nickel	ND	0.020		mg/L	5	8/30/2015
Potassium	2.1	0.25		mg/L	5	8/30/2015
Selenium	ND	0.010		mg/L	5	8/30/2015
Silver	ND	0.010		mg/L	5	8/30/2015
Thallium	ND	0.0050		mg/L	5	8/30/2015
Vanadium	ND	0.010		mg/L	5	8/30/2015
Zinc	ND	0.050		mg/L	5	8/30/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-2-B07 (0-1.5)

Work Order: 15080956 Revision 1

Collection Date: 8/26/2015 8:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080956-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/28/2015 1	Analyst: LB 8/31/2015
Mercury Mercury	SW7471A 0.048	0.019		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/31/2015 1	Analyst: MD 8/31/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	Prep Date: 8/28/2015 1	Analyst: MD 8/31/2015
pH (25 °C) pH	SW9045C 7.9			pH Units	Prep Date: 8/27/2015 1	Analyst: GH 8/27/2015
Percent Moisture Percent Moisture	D2974 17.7	0.2	*	wt%	Prep Date: 8/26/2015 1	Analyst: GH 8/27/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

CHAIN OF CUSTODY RECORD

Company: TERRACON		P.O. No.:							
Project Number: 1157109		Quote No.:							
Project Name: DDOT FAO 297		Turn Around: Normal Results Needed:							
Project Location: New Lenox Lakes, IL									
Sampler(s): Janalaska Williams									
Report To: Richard O'Brien									
Phone: 312-489-5501		Remarks:							
Fax:		Lab No.:							
e-mail: rmobrien@terracon.com		am/pm							
QC Level: 1 2 3 4	Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	
	2697-2-B05 (0-3)	8/26/15	950	S	X	X		4	
	2697-2-B06 (0-3)	8/26/15	920	S	X	X		4	
	2697-2-B07 (0-1.5)	8/26/15	840	S	X	X		4	
Relinquished by: (Signature) <i>Janalaska Williams</i> Date/Time: 8/26/15/15:30 Received by: (Signature) <i>Richard O'Brien</i> Date/Time: 8/26/15/11:53 Relinquished by: (Signature) _____ Date/Time: _____ Received by: (Signature) _____ Date/Time: _____ Relinquished by: (Signature) _____ Date/Time: _____ Received by: (Signature) _____ Date/Time: _____									
Laboratory Work Order No.: 15080956 Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temperature: On Ice °C									

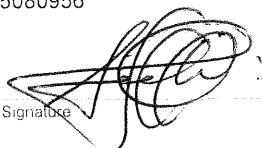
Sample Receipt Checklist

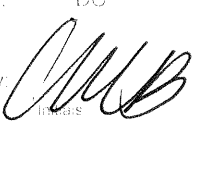
Client Name TERRACON-NAPERVILLE

Date and Time Received: 8/26/2015 11:53:00 AM

Work Order Number 15080956

Received by: DO

Checklist completed by:  : 8/26/15
Signature Date

Reviewed by:  8/27/15
Initials Date

Matrix: _____ Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature On Ice °C
- Water - VOA vials have zero headspace? Yes No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Wednesday, September 02, 2015 5:01 PM
To: Craig Chawla
Subject: Re: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080957

Please run SPLP Manganese for the sample for this project on Standard turnaround.

Thanks,

Rich

On Sep 2, 2015, at 4:56 PM, Craig Chawla <cchawla@statanalysis.com<mailto:cchawla@statanalysis.com>> wrote:



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

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

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

Project Name: FAU 297 – US Route 6 at Gougar Road Office Phone Number, if available: _____

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

US Route 6 (Southwest Highway) at Gougar Road IDOT STA 193+00 to 200+00 (ISGS Site 2697-3)

City: Joliet/New Lenox State: IL Zip Code: 60432

County: Will Township: New Lenox

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

Latitude: 41.54767 Longitude: -88.00556
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 297 – US Route 6 at Gougar RoadLatitude: 41.54767 Longitude: -88.00556Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

Soil from borings B01, B05 through B08 were sampled adjacent to ISGS Site No 2697-3. See Exhibits 2, 2A, 2B,3, 3A and Table 4 of Preliminary Site Investigation Report prepared by Terracon dated November 13, 2015.

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

STAT Analysis Corporation Report No 15080846-1, 15080905-1 and 15080948-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 16, 2015. CCDD/USFO facility in MSA County. Only boring listed above are certified.

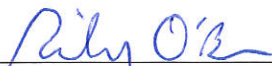
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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

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

Company Name: Terracon Consultants, IncStreet Address: 650 West Lake Street, Suite 420City: Chicago State: IL Zip Code: 60661Phone: (312) 443-2958Richard O'Brien, P.E.

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:November 13, 2015

Date:



P.E. or L.P.G. Seal:

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-3-B01 (0-4)	2697-3-B02 (0-4)	2697-3-B02 DUP (0-4)	2697-3-B03 (0-2.5)	2697-3-B04 (0-3)	2697-3-B05 (0-4)	2697-3-B06 (0-5)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL											
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		mg/kg	Date Collected	08/25/2015	08/25/2015	08/25/2015	08/25/2015	08/25/2015	08/25/2015	08/25/2015	08/21/2015	
										pH 6.25-9.0								
Mercury, TCLP	mg/L	---	---	---	---	0.002	---	---	---		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	
Selenium, TCLP	mg/L	---	---	---	---	0.05	---	---	---		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10	
Silver, TCLP	mg/L	---	---	---	---	0.05	---	---	---		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10	
Antimony, TCLP	mg/L	---	---	---	---	0.006	---	---	---		< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
Beryllium, TCLP	mg/L	---	---	---	---	0.004	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Calcium, TCLP	mg/L	---	---	---	---	---	---	---	---		360	72	490	83	300	710	610	
Cobalt, TCLP	mg/L	---	---	---	---	1	---	---	---		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10	
Copper, TCLP	mg/L	---	---	---	---	0.65	---	---	---		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 0.10	
Cyanide, TCLP	mg/L	---	---	---	---	0.2	---	---	---		---	---	---	---	---	---	---	
Iron, TCLP	mg/L	---	---	---	---	5	---	---	---		< 0.25	0.35	< 0.25	0.32	< 0.25	< 0.25	< 0.25	
Magnesium, TCLP	mg/L	---	---	---	---	---	---	---	---		160	24	87	24	160	45	49	
Manganese, TCLP	mg/L	---	---	---	---	0.15	---	---	---		2.2	11	1.7	12	1.1	1.2	0.81	
Nickel, TCLP	mg/L	---	---	---	---	0.1	---	---	---		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.020	
Potassium, TCLP	mg/L	---	---	---	---	---	---	---	---		< 5.0	< 5.0	< 5.0	9.9	< 5.0	< 5.0	1.4	
Sodium, TCLP	mg/L	---	---	---	---	---	---	---	---		---	---	---	---	---	---	---	
Thallium, TCLP	mg/L	---	---	---	---	0.002	---	---	---		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.0050	
Vanadium, TCLP	mg/L	---	---	---	---	0.049	---	---	---		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.010	
Zinc, TCLP	mg/L	---	---	---	---	5	---	---	---		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.050	
Herbicides																		
2,4,5-TP (Silvex)	mg/kg	630	---	1,600	---	11	*	---	---	11	< 0.0038	< 0.0040	< 0.0038	< 0.0045	< 0.0036	< 0.0038	< 0.0038	
2,4-D	mg/kg	780	---	2,000	---	1.5	*	---	---	1.5	< 0.0038	< 0.0040	< 0.0038	< 0.0045	< 0.0036	< 0.0038	< 0.0038	
4-Nitrophenol	mg/kg	---	---	---	---	---	---	---	---	---	< 0.38	< 0.40	< 0.38	< 0.45	< 0.36	< 0.38	< 0.37	
Dicamba	mg/kg	2,300	---	6,100	---	0.86	---	---	---	---	< 0.0077	< 0.0082	< 0.0077	< 0.0091	< 0.0073	< 0.0078	< 0.0077	
MCPA	mg/kg	39	---	100	---	0.015	---	---	---	---	< 0.0077	< 0.0082	< 0.0077	< 0.0091	< 0.0073	< 0.0078	< 0.0077	
MCPP	mg/kg	78	---	2,000	---	0.033	---	---	---	---	< 0.0038	< 0.0040	< 0.0038	< 0.0045	< 0.0036	< 0.0038	< 0.0038	
Pentachlorophenol	mg/kg	3.0	---	520	---	0.03	*	---	---	---	< 0.076	< 0.081	< 0.077	< 0.091	< 0.072	< 0.077	< 0.076	
Picloram	mg/kg	5,500	---	14,000	---	2	---	---	---	2	< 0.0077	< 0.0082	< 0.0077	< 0.0091	< 0.0073	< 0.0078	< 0.0077	

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-3)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 3 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-3-B06 (5-10)	2697-3-B06 (10-15)	2697-3-B06 (15-20)	2697-3-B07 (0-2.5)	2697-3-B08 (0-2.5)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL									
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	CCDD	Sample Depth (feet)	Date Collected	(5-10)	(10-15)	(15-20)	(0-2.5)
							mg/kg			pH 6.25-9.0						
Semivolatile Organic Analytical Parameters																
Acenaphthene	mg/kg	4,700	---	120,000	---	570	*	0.09	0.13	570		< 0.038	< 0.039	< 0.036	< 0.035	< 0.037
Acenaphthylene	mg/kg	2,300	---	61,000	---	85	---	0.03	0.07	85		< 0.038	< 0.039	< 0.036	< 0.035	< 0.037
Anthracene	mg/kg	23,000	---	610,000	---	12000	*	0.25	0.4	12000		< 0.038	< 0.039	< 0.036	0.051	< 0.037
Benzo(a)anthracene	mg/kg	0.9	---	170	---	2	*	1.1	1.8	0.9		< 0.038	< 0.039	< 0.036	0.21	< 0.037
Benzo(a)pyrene	mg/kg	0.09	---	17	---	8	*	1.3	2.1	0.09		< 0.038	< 0.039	< 0.036	0.22	0.064
Benzo(b)fluoranthene	mg/kg	0.9	---	170	---	5	*	1.5	2.1	0.9		< 0.038	< 0.039	< 0.036	0.22	0.058
Benzo(g,h,i)perylene	mg/kg	2,300	---	61,000	---	27000	---	0.68	1.7	2300		< 0.038	< 0.039	< 0.036	0.13	0.055
Benzo(k)fluoranthene	mg/kg	9.0	---	1,700	---	49	*	0.99	1.7	9		< 0.038	< 0.039	< 0.036	0.19	< 0.037
Chrysene	mg/kg	88	---	17,000	---	160	*	1.2	2.7	88		< 0.038	< 0.039	< 0.036	0.22	< 0.037
Dibenzo(a,h)anthracene	mg/kg	0.09	---	17	---	2	*	0.2	0.42	0.09		< 0.038	< 0.039	< 0.036	0.064	< 0.037
Fluoranthene	mg/kg	3,100	---	82,000	---	4300	*	2.7	4.1	3100		< 0.038	< 0.039	< 0.036	0.43	< 0.037
Fluorene	mg/kg	3,100	---	82,000	---	560	*	0.1	0.18	560		< 0.038	< 0.039	< 0.036	< 0.035	< 0.037
Indeno(1,2,3-c,d)pyrene	mg/kg	0.9	---	170	---	14	*	0.86	1.6	0.9		< 0.038	< 0.039	< 0.036	0.12	< 0.037
Naphthalene	mg/kg	1,600	170	4,100	1.8	12	*	0.04	0.2	1.8		< 0.038	< 0.039	< 0.036	< 0.035	< 0.037
Phenanthrene	mg/kg	2,300	---	61,000	---	200	---	1.3	2.5	210		< 0.038	< 0.039	< 0.036	0.17	< 0.037
Pyrene	mg/kg	2,300	---	61,000	---	4200	*	1.9	3.0	2300		< 0.038	< 0.039	< 0.036	0.35	< 0.037
Inorganic Analytical Parameters																
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		9.7	6.6	13.0	6.2	13.0
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		58	57	39	19	71
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		0.85	0.81	0.85	< 0.49	< 0.51
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		19	23	13	6.9	15
Lead	mg/kg	400	---	700	---	---	*	36	36	107		17	16	15	11	27
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		0.021	< 0.023	< 0.022	< 0.020	0.035
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		0.81	0.69	0.83	1.1	2.2
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 0.55	< 0.56	< 0.51	< 0.98	< 1.0
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.2	< 2.3	< 2.0	< 2.0	< 2.0
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		0.87	0.94	0.63	< 0.49	0.75
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		59000	60000	88000	81000	35000
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		13	13	11	5.6	11
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		23	21	24	11	26
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.29	< 0.30	< 0.28	< 0.27	< 0.28
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		25000	24000	23000	11000	25000
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		28000	28000	42000	42000	20000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		510	440	520	360	600
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		33	37	27	12	24
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		1900	2900	1800	720	1100
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		290	200	150	630	1000
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.1	< 1.1	< 1.0	< 0.98	< 1.0
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		23	25	16	10	22
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		64	53	57	32	79
pH									6.25	9		7.8	7.8	7.5	8.9	8.4
Inorganic Analytical Parameters (SPLP)																
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.063	0.013	0.0055	0.31	0.24
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Inorganic Analytical Parameters (TCLP)																
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.020	< 0.010	< 0.010	< 0.010	< 0.010
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.23	0.67	0.51	0.18	0.43
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.010	< 0.010	< 0.010	0.011	0.011
Lead,TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-3-B06	2697-3-B06	2697-3-B06	2697-3-B07	2697-3-B08		
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL					CCDD	Sample Depth (feet)	(5-10)	(10-15)	(15-20)	(0-2.5)	(0-2.5)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I								Chicago	MSAs	mg/kg	Date Collected	08/21/2015
										pH 6.25-9.0								
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020			
Selenium,TCLP	mg/L	---	---	---	---	0.05	---	---	---		< 0.020	< 0.010	< 0.010	< 0.010	< 0.010			
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---		< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---		< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---		2000	640	620	0	0			
Cobalt,TCLP	mg/L	---	---	---	---	1	---	---	---		0.024	0.022	0.035	< 0.010	< 0.010			
Copper,TCLP	mg/L	---	---	---	---	0.65	---	---	---		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Cyanide,TCLP	mg/L	---	---	---	---	0.2	---	---	---		---	---	---	---	---			
Iron,TCLP	mg/L	---	---	---	---	5	---	---	---		< 0.25	< 0.25	< 0.25	2.7	2			
Magnesium,TCLP	mg/L	---	---	---	---	---	---	---	---		190	56	55	76	120			
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---		5.2	2.2	2.6	1.2	0.91			
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---		0.033	0.048	0.063	< 0.020	< 0.020			
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---		1.1	4.9	4.9	1.7	2.5			
Sodium,TCLP	mg/L	---	---	---	---	---	---	---	---		---	---	---	---	---			
Thallium,TCLP	mg/L	---	---	---	---	0.002	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050			
Herbicides																		
2,4,5-TP (Silvex)	mg/kg	630	---	1,600	---	11	*	---	---	11	< 0.0038	< 0.0040	< 0.0036	< 0.0035	< 0.0036			
2,4-D	mg/kg	780	---	2,000	---	1.5	*	---	---	1.5	< 0.0038	< 0.0040	< 0.0036	< 0.0035	< 0.0036			
4-Nitrophenol	mg/kg	---	---	---	---	---	---	---	---	---	< 0.38	< 0.39	< 0.36	< 0.35	< 0.37			
Dicamba	mg/kg	2,300	---	6,100	---	0.86	---	---	---	---	< 0.0077	< 0.0081	< 0.0073	< 0.0070	< 0.0074			
MCPA	mg/kg	39	---	100	---	0.015	---	---	---	---	< 0.0077	< 0.0081	< 0.0073	< 0.0070	< 0.0074			
MCPP	mg/kg	78	---	2,000	---	0.033	---	---	---	---	< 0.0038	< 0.0040	< 0.0036	< 0.0035	< 0.0036			
Pentachlorophenol	mg/kg	3.0	---	520	---	0.03	*	---	---	---	< 0.078	< 0.079	< 0.073	< 0.071	< 0.075			
Picloram	mg/kg	5,500	---	14,000	---	2	---	---	---	2	< 0.0077	< 0.0081	< 0.0073	< 0.0070	< 0.0074			

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 03, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080846 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 4 samples for the referenced project on 8/21/2015 7:48:00 PM. The analytical results are presented in the following report.

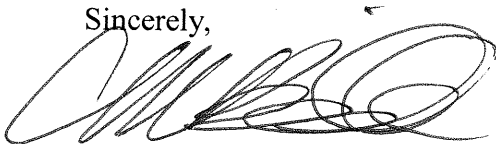
This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Michelle Budniak

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL
Work Order: 15080846 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080846-001A	2697-3-B06 (0-5)		8/21/2015 11:55:00 AM	8/21/2015
15080846-001B	2697-3-B06 (0-5)		8/21/2015 11:55:00 AM	8/21/2015
15080846-002A	2697-3-B06 (5-10)		8/21/2015 12:00:00 PM	8/21/2015
15080846-002B	2697-3-B06 (5-10)		8/21/2015 12:00:00 PM	8/21/2015
15080846-003A	2697-3-B06 (10-15)		8/21/2015 12:05:00 PM	8/21/2015
15080846-003B	2697-3-B06 (10-15)		8/21/2015 12:05:00 PM	8/21/2015
15080846-004A	2697-3-B06 (15-20)		8/21/2015 12:10:00 PM	8/21/2015
15080846-004B	2697-3-B06 (15-20)		8/21/2015 12:10:00 PM	8/21/2015

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (0-5)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 11:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART	
Acetone	ND	0.065		mg/Kg-dry	1	8/26/2015
Benzene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Bromodichloromethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
Bromoform	ND	0.0043		mg/Kg-dry	1	8/26/2015
Bromomethane	ND	0.0086		mg/Kg-dry	1	8/26/2015
2-Butanone	ND	0.065		mg/Kg-dry	1	8/26/2015
Carbon disulfide	ND	0.043		mg/Kg-dry	1	8/26/2015
Carbon tetrachloride	ND	0.0043		mg/Kg-dry	1	8/26/2015
Chlorobenzene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Chloroethane	ND	0.0086		mg/Kg-dry	1	8/26/2015
Chloroform	ND	0.0043		mg/Kg-dry	1	8/26/2015
Chloromethane	ND	0.0086		mg/Kg-dry	1	8/26/2015
Dibromochloromethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,2-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
cis-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
trans-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,2-Dichloropropane	ND	0.0043		mg/Kg-dry	1	8/26/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/26/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/26/2015
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	8/26/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/26/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/26/2015
Methylene chloride	ND	0.0086		mg/Kg-dry	1	8/26/2015
Methyl tert-butyl ether	ND	0.0043		mg/Kg-dry	1	8/26/2015
Styrene	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
Tetrachloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Toluene	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1,1-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1,2-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
Trichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Vinyl chloride	ND	0.0043		mg/Kg-dry	1	8/26/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/26/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (0-5)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 11:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015

Qualifiers:

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (0-5)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 11:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.76		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	8/26/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	8/26/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	8/26/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	8/26/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	8/26/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (0-5)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 11:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.018		mg/Kg-dry	1	8/26/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endrin	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	8/26/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	8/26/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	8/26/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	8/26/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	8/26/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	8/26/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/25/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0038		mg/Kg-dry	1	8/25/2015
2,4-D	ND	0.0038		mg/Kg-dry	1	8/25/2015
Carbofuran	ND	0.0077	*	mg/Kg-dry	1	8/25/2015
Dicamba	ND	0.0077		mg/Kg-dry	1	8/25/2015
MCPA	ND	0.0077		mg/Kg-dry	1	8/25/2015
MCPP	ND	0.0038		mg/Kg-dry	1	8/25/2015
Pentachlorophenol	ND	0.011	*	mg/Kg-dry	1	8/25/2015
Picloram	ND	0.0077	*	mg/Kg-dry	1	8/25/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	11	1.1		mg/Kg-dry	10	8/24/2015
Barium	81	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.95	0.55		mg/Kg-dry	10	8/24/2015
Cadmium	ND	0.55		mg/Kg-dry	10	8/24/2015
Calcium	54000	66		mg/Kg-dry	10	8/24/2015
Chromium	23	1.1		mg/Kg-dry	10	8/24/2015
Cobalt	12	1.1		mg/Kg-dry	10	8/24/2015
Copper	28	2.7		mg/Kg-dry	10	8/24/2015
Iron	30000	33		mg/Kg-dry	10	8/24/2015
Lead	18	0.55		mg/Kg-dry	10	8/24/2015
Magnesium	31000	33		mg/Kg-dry	10	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (0-5)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 11:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Manganese	430	1.1		mg/Kg-dry	10	8/24/2015
Nickel	33	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1900	33		mg/Kg-dry	10	8/24/2015
Selenium	1.2	0.55		mg/Kg-dry	10	8/24/2015
Silver	ND	0.55		mg/Kg-dry	10	8/24/2015
Sodium	1400	66		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	27	1.1		mg/Kg-dry	10	8/24/2015
Zinc	82	5.5		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.072	0.0040		mg/L	2	8/31/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.31	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	610	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	49	0.25		mg/L	5	8/26/2015
Manganese	0.81	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.4	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury						
	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury						
	SW7471A			Prep Date: 8/24/2015		Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (0-5)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 11:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/26/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/26/2015
Cyanide, Total	SW9012A				Prep Date: 8/24/2015	Analyst: YZ
Cyanide	ND	0.29		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C				Prep Date: 8/24/2015	Analyst: GH
pH	8.2			pH Units	1	8/24/2015
Percent Moisture	D2974				Prep Date: 8/21/2015	Analyst: RW
Percent Moisture	12.7	0.2	*	wt%	1	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (5-10)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.073		mg/Kg-dry	1	8/26/2015
Benzene	ND	0.0049		mg/Kg-dry	1	8/26/2015
Bromodichloromethane	ND	0.0049		mg/Kg-dry	1	8/26/2015
Bromoform	ND	0.0049		mg/Kg-dry	1	8/26/2015
Bromomethane	ND	0.0097		mg/Kg-dry	1	8/26/2015
2-Butanone	ND	0.073		mg/Kg-dry	1	8/26/2015
Carbon disulfide	ND	0.049		mg/Kg-dry	1	8/26/2015
Carbon tetrachloride	ND	0.0049		mg/Kg-dry	1	8/26/2015
Chlorobenzene	ND	0.0049		mg/Kg-dry	1	8/26/2015
Chloroethane	ND	0.0097		mg/Kg-dry	1	8/26/2015
Chloroform	ND	0.0049		mg/Kg-dry	1	8/26/2015
Chloromethane	ND	0.0097		mg/Kg-dry	1	8/26/2015
Dibromochloromethane	ND	0.0049		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethane	ND	0.0049		mg/Kg-dry	1	8/26/2015
1,2-Dichloroethane	ND	0.0049		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/26/2015
cis-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/26/2015
trans-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	8/26/2015
1,2-Dichloropropane	ND	0.0049		mg/Kg-dry	1	8/26/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/26/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/26/2015
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	8/26/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/26/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/26/2015
Methylene chloride	ND	0.0097		mg/Kg-dry	1	8/26/2015
Methyl tert-butyl ether	ND	0.0049		mg/Kg-dry	1	8/26/2015
Styrene	ND	0.0049		mg/Kg-dry	1	8/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0049		mg/Kg-dry	1	8/26/2015
Tetrachloroethene	ND	0.0049		mg/Kg-dry	1	8/26/2015
Toluene	ND	0.0049		mg/Kg-dry	1	8/26/2015
1,1,1-Trichloroethane	ND	0.0049		mg/Kg-dry	1	8/26/2015
1,1,2-Trichloroethane	ND	0.0049		mg/Kg-dry	1	8/26/2015
Trichloroethene	ND	0.0049		mg/Kg-dry	1	8/26/2015
Vinyl chloride	ND	0.0049		mg/Kg-dry	1	8/26/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/26/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/27/2015

Qualifiers:
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (5-10)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.38		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

Qualifiers:

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HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (5-10)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.078		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.78		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	8/26/2015
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	8/26/2015
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	8/26/2015
Aldrin	ND	0.0019		mg/Kg-dry	1	8/26/2015
alpha-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	8/26/2015
beta-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (5-10)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.019		mg/Kg-dry	1	8/26/2015
delta-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015
Dieldrin	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endosulfan I	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endosulfan II	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endrin	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endrin ketone	ND	0.0019		mg/Kg-dry	1	8/26/2015
gamma-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	8/26/2015
Heptachlor	ND	0.0019		mg/Kg-dry	1	8/26/2015
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	8/26/2015
Methoxychlor	ND	0.0019		mg/Kg-dry	1	8/26/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	8/26/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/25/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0038		mg/Kg-dry	1	8/25/2015
2,4-D	ND	0.0038		mg/Kg-dry	1	8/25/2015
Carbofuran	ND	0.0077	*	mg/Kg-dry	1	8/25/2015
Dicamba	ND	0.0077		mg/Kg-dry	1	8/25/2015
MCPA	ND	0.0077		mg/Kg-dry	1	8/25/2015
MCPP	ND	0.0038		mg/Kg-dry	1	8/25/2015
Pentachlorophenol	ND	0.011	*	mg/Kg-dry	1	8/25/2015
Picloram	ND	0.0077	*	mg/Kg-dry	1	8/25/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	9.7	1.1		mg/Kg-dry	10	8/24/2015
Barium	58	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.87	0.55		mg/Kg-dry	10	8/24/2015
Cadmium	0.85	0.55		mg/Kg-dry	10	8/24/2015
Calcium	59000	66		mg/Kg-dry	10	8/24/2015
Chromium	19	1.1		mg/Kg-dry	10	8/24/2015
Cobalt	13	1.1		mg/Kg-dry	10	8/24/2015
Copper	23	2.8		mg/Kg-dry	10	8/24/2015
Iron	25000	33		mg/Kg-dry	10	8/24/2015
Lead	17	0.55		mg/Kg-dry	10	8/24/2015
Magnesium	28000	33		mg/Kg-dry	10	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (5-10)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Manganese	510	1.1		mg/Kg-dry	10	8/24/2015
Nickel	33	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1900	33		mg/Kg-dry	10	8/24/2015
Selenium	0.81	0.55		mg/Kg-dry	10	8/24/2015
Silver	ND	0.55		mg/Kg-dry	10	8/24/2015
Sodium	290	66		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	23	1.1		mg/Kg-dry	10	8/24/2015
Zinc	64	5.5		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.063	0.0040		mg/L	2	8/31/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.020		mg/L	10	8/26/2015
Barium	0.23	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.010		mg/L	10	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	2000	10		mg/L	100	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.024	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	190	0.25		mg/L	5	8/26/2015
Manganese	5.2	0.010		mg/L	5	8/26/2015
Nickel	0.033	0.020		mg/L	5	8/26/2015
Potassium	1.1	0.25		mg/L	5	8/26/2015
Selenium	ND	0.020		mg/L	10	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury						
	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury						
	SW7471A			Prep Date: 8/24/2015		Analyst: LB
Mercury	0.021	0.019		mg/Kg-dry	1	8/24/2015

Qualifiers:
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (5-10)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/26/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/26/2015
Cyanide, Total	SW9012A				Prep Date: 8/24/2015	Analyst: YZ
Cyanide	ND	0.29		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C				Prep Date: 8/24/2015	Analyst: GH
pH	7.8			pH Units	1	8/24/2015
Percent Moisture	D2974				Prep Date: 8/21/2015	Analyst: RW
Percent Moisture	14.4	0.2	*	wt%	1	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (10-15)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.065		mg/Kg-dry	1	8/26/2015
Benzene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Bromodichloromethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
Bromoform	ND	0.0043		mg/Kg-dry	1	8/26/2015
Bromomethane	ND	0.0087		mg/Kg-dry	1	8/26/2015
2-Butanone	ND	0.065		mg/Kg-dry	1	8/26/2015
Carbon disulfide	ND	0.043		mg/Kg-dry	1	8/26/2015
Carbon tetrachloride	ND	0.0043		mg/Kg-dry	1	8/26/2015
Chlorobenzene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Chloroethane	ND	0.0087		mg/Kg-dry	1	8/26/2015
Chloroform	ND	0.0043		mg/Kg-dry	1	8/26/2015
Chloromethane	ND	0.0087		mg/Kg-dry	1	8/26/2015
Dibromochloromethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,2-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
cis-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
trans-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,2-Dichloropropane	ND	0.0043		mg/Kg-dry	1	8/26/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/26/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/26/2015
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	8/26/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/26/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/26/2015
Methylene chloride	ND	0.0087		mg/Kg-dry	1	8/26/2015
Methyl tert-butyl ether	ND	0.0043		mg/Kg-dry	1	8/26/2015
Styrene	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
Tetrachloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Toluene	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1,1-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
1,1,2-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/26/2015
Trichloroethene	ND	0.0043		mg/Kg-dry	1	8/26/2015
Vinyl chloride	ND	0.0043		mg/Kg-dry	1	8/26/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/26/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/27/2015

Qualifiers: ND - Not Detected at the Reporting Limit RL - Reporting / Quantitation Limit for the analysis
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (10-15)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

Qualifiers:

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (10-15)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	8/26/2015
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	8/26/2015
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	8/26/2015
Aldrin	ND	0.0019		mg/Kg-dry	1	8/26/2015
alpha-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	8/26/2015
beta-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (10-15)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.019		mg/Kg-dry	1	8/26/2015
delta-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015
Dieldrin	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endosulfan I	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endosulfan II	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endrin	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	8/26/2015
Endrin ketone	ND	0.0019		mg/Kg-dry	1	8/26/2015
gamma-BHC	ND	0.0019		mg/Kg-dry	1	8/26/2015
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	8/26/2015
Heptachlor	ND	0.0019		mg/Kg-dry	1	8/26/2015
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	8/26/2015
Methoxychlor	ND	0.0019		mg/Kg-dry	1	8/26/2015
Toxaphene	ND	0.040		mg/Kg-dry	1	8/26/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/25/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0040		mg/Kg-dry	1	8/26/2015
2,4-D	ND	0.0040		mg/Kg-dry	1	8/26/2015
Carbofuran	ND	0.0081	*	mg/Kg-dry	1	8/26/2015
Dicamba	ND	0.0081		mg/Kg-dry	1	8/26/2015
MCPA	ND	0.0081		mg/Kg-dry	1	8/26/2015
MCPP	ND	0.0040		mg/Kg-dry	1	8/26/2015
Pentachlorophenol	ND	0.012	*	mg/Kg-dry	1	8/26/2015
Picloram	ND	0.0081	*	mg/Kg-dry	1	8/26/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Antimony	ND	2.3		mg/Kg-dry	10	8/24/2015
Arsenic	6.6	1.1		mg/Kg-dry	10	8/24/2015
Barium	57	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.94	0.56		mg/Kg-dry	10	8/24/2015
Cadmium	0.81	0.56		mg/Kg-dry	10	8/24/2015
Calcium	60000	68		mg/Kg-dry	10	8/24/2015
Chromium	23	1.1		mg/Kg-dry	10	8/24/2015
Cobalt	13	1.1		mg/Kg-dry	10	8/24/2015
Copper	21	2.8		mg/Kg-dry	10	8/24/2015
Iron	24000	34		mg/Kg-dry	10	8/24/2015
Lead	16	0.56		mg/Kg-dry	10	8/24/2015
Magnesium	28000	34		mg/Kg-dry	10	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (10-15)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Manganese	440	1.1		mg/Kg-dry	10	8/24/2015
Nickel	37	1.1		mg/Kg-dry	10	8/24/2015
Potassium	2900	34		mg/Kg-dry	10	8/24/2015
Selenium	0.69	0.56		mg/Kg-dry	10	8/24/2015
Silver	ND	0.56		mg/Kg-dry	10	8/24/2015
Sodium	200	68		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	25	1.1		mg/Kg-dry	10	8/24/2015
Zinc	53	5.6		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.013	0.0040		mg/L	2	8/31/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.67	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	640	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.022	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	56	0.25		mg/L	5	8/26/2015
Manganese	2.2	0.010		mg/L	5	8/26/2015
Nickel	0.048	0.020		mg/L	5	8/26/2015
Potassium	4.9	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury	SW7471A			Prep Date: 8/24/2015		Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (10-15)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/26/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/26/2015
Cyanide, Total	SW9012A				Prep Date: 8/24/2015	Analyst: YZ
Cyanide	ND	0.30		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C				Prep Date: 8/24/2015	Analyst: GH
pH	7.8			pH Units	1	8/24/2015
Percent Moisture	D2974				Prep Date: 8/21/2015	Analyst: RW
Percent Moisture	17.3	0.2	*	wt%	1	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (15-20)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART	
Acetone	ND	0.054		mg/Kg-dry	1	8/26/2015
Benzene	ND	0.0036		mg/Kg-dry	1	8/26/2015
Bromodichloromethane	ND	0.0036		mg/Kg-dry	1	8/26/2015
Bromoform	ND	0.0036		mg/Kg-dry	1	8/26/2015
Bromomethane	ND	0.0072		mg/Kg-dry	1	8/26/2015
2-Butanone	ND	0.054		mg/Kg-dry	1	8/26/2015
Carbon disulfide	ND	0.036		mg/Kg-dry	1	8/26/2015
Carbon tetrachloride	ND	0.0036		mg/Kg-dry	1	8/26/2015
Chlorobenzene	ND	0.0036		mg/Kg-dry	1	8/26/2015
Chloroethane	ND	0.0072		mg/Kg-dry	1	8/26/2015
Chloroform	ND	0.0036		mg/Kg-dry	1	8/26/2015
Chloromethane	ND	0.0072		mg/Kg-dry	1	8/26/2015
Dibromochloromethane	ND	0.0036		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethane	ND	0.0036		mg/Kg-dry	1	8/26/2015
1,2-Dichloroethane	ND	0.0036		mg/Kg-dry	1	8/26/2015
1,1-Dichloroethene	ND	0.0036		mg/Kg-dry	1	8/26/2015
cis-1,2-Dichloroethene	ND	0.0036		mg/Kg-dry	1	8/26/2015
trans-1,2-Dichloroethene	ND	0.0036		mg/Kg-dry	1	8/26/2015
1,2-Dichloropropane	ND	0.0036		mg/Kg-dry	1	8/26/2015
cis-1,3-Dichloropropene	ND	0.0014		mg/Kg-dry	1	8/26/2015
trans-1,3-Dichloropropene	ND	0.0014		mg/Kg-dry	1	8/26/2015
Ethylbenzene	ND	0.0036		mg/Kg-dry	1	8/26/2015
2-Hexanone	ND	0.014		mg/Kg-dry	1	8/26/2015
4-Methyl-2-pentanone	ND	0.014		mg/Kg-dry	1	8/26/2015
Methylene chloride	ND	0.0072		mg/Kg-dry	1	8/26/2015
Methyl tert-butyl ether	ND	0.0036		mg/Kg-dry	1	8/26/2015
Styrene	ND	0.0036		mg/Kg-dry	1	8/26/2015
1,1,2,2-Tetrachloroethane	ND	0.0036		mg/Kg-dry	1	8/26/2015
Tetrachloroethene	ND	0.0036		mg/Kg-dry	1	8/26/2015
Toluene	ND	0.0036		mg/Kg-dry	1	8/26/2015
1,1,1-Trichloroethane	ND	0.0036		mg/Kg-dry	1	8/26/2015
1,1,2-Trichloroethane	ND	0.0036		mg/Kg-dry	1	8/26/2015
Trichloroethene	ND	0.0036		mg/Kg-dry	1	8/26/2015
Vinyl chloride	ND	0.0036		mg/Kg-dry	1	8/26/2015
Xylenes, Total	ND	0.011		mg/Kg-dry	1	8/26/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Acenaphthene	ND	0.036		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.036		mg/Kg-dry	1	8/27/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (15-20)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Aniline	ND	0.36		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.036		mg/Kg-dry	1	8/27/2015
Benzo(a)anthracene	ND	0.036		mg/Kg-dry	1	8/27/2015
Benzydine	ND	0.36		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.91		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.91		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.036		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.91		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015

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STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (15-20)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Fluoranthene	ND	0.036		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.036		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.036		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.036		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.073		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.036		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.036		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.73		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	8/26/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	8/26/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	8/26/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	8/26/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	8/26/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (15-20)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.018		mg/Kg-dry	1	8/26/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endrin	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	8/26/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	8/26/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	8/26/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	8/26/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	8/26/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	8/26/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	8/26/2015
Toxaphene	ND	0.036		mg/Kg-dry	1	8/26/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/25/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0036		mg/Kg-dry	1	8/25/2015
2,4-D	ND	0.0036		mg/Kg-dry	1	8/25/2015
Carbofuran	ND	0.0073	*	mg/Kg-dry	1	8/25/2015
Dicamba	ND	0.0073		mg/Kg-dry	1	8/25/2015
MCPA	ND	0.0073		mg/Kg-dry	1	8/25/2015
MCPP	ND	0.0036		mg/Kg-dry	1	8/25/2015
Pentachlorophenol	ND	0.011	*	mg/Kg-dry	1	8/25/2015
Picloram	ND	0.0073	*	mg/Kg-dry	1	8/25/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Antimony	ND	2.0		mg/Kg-dry	10	8/24/2015
Arsenic	13	1.0		mg/Kg-dry	10	8/24/2015
Barium	39	1.0		mg/Kg-dry	10	8/24/2015
Beryllium	0.63	0.51		mg/Kg-dry	10	8/24/2015
Cadmium	0.85	0.51		mg/Kg-dry	10	8/24/2015
Calcium	88000	61		mg/Kg-dry	10	8/24/2015
Chromium	13	1.0		mg/Kg-dry	10	8/24/2015
Cobalt	11	1.0		mg/Kg-dry	10	8/24/2015
Copper	24	2.6		mg/Kg-dry	10	8/24/2015
Iron	23000	31		mg/Kg-dry	10	8/24/2015
Lead	15	0.51		mg/Kg-dry	10	8/24/2015
Magnesium	42000	31		mg/Kg-dry	10	8/24/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (15-20)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Manganese	520	1.0		mg/Kg-dry	10	8/24/2015
Nickel	27	1.0		mg/Kg-dry	10	8/24/2015
Potassium	1800	31		mg/Kg-dry	10	8/24/2015
Selenium	0.83	0.51		mg/Kg-dry	10	8/24/2015
Silver	ND	0.51		mg/Kg-dry	10	8/24/2015
Sodium	150	61		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/24/2015
Vanadium	16	1.0		mg/Kg-dry	10	8/24/2015
Zinc	57	5.1		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.0055	0.0040		mg/L	2	8/31/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.51	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	620	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.035	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	55	0.25		mg/L	5	8/26/2015
Manganese	2.6	0.010		mg/L	5	8/26/2015
Nickel	0.063	0.020		mg/L	5	8/26/2015
Potassium	4.9	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury	SW7471A			Prep Date: 8/24/2015		Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	8/24/2015

Qualifiers:
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B06 (15-20)

Work Order: 15080846 Revision 1

Collection Date: 8/21/2015 12:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080846-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/26/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/26/2015
Cyanide, Total	SW9012A				Prep Date: 8/24/2015	Analyst: YZ
Cyanide	ND	0.28		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C				Prep Date: 8/24/2015	Analyst: GH
pH	7.5			pH Units	1	8/24/2015
Percent Moisture	D2974				Prep Date: 8/21/2015	Analyst: RW
Percent Moisture	10.0	0.2	*	wt%	1	8/24/2015

Qualifiers:
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 S - Spike Recovery outside accepted recovery limits
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Sample Receipt Checklist

Client Name TERRACON-NAPERVILLE

Date and Time Received: 8/21/2015 7:48:00 PM

Work Order Number 15080846

Received by: DO

Checklist completed by: [Signature] : 8/20/15
Signature Date

Reviewed by: DL 8/24/2015
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 2.8 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by:
- Water - Samples properly preserved? Yes No pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

11157109, IDOT FAU 297, New Lenox /Joliet, IL 15080846

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Friday, August 28, 2015 1:27 PM
To: Craig Chawla
Subject: RE: 11157109, IDOT FAU 297, New Lenox /Joliet, IL 15080846

Hi Craig,

Regarding the blow-referenced project, please run the additional on standard turnaround:

- SPLP Manganese

Thanks,

Richard O'Brien, P.E.
Senior Project Engineer
Environmental Services

Terracon Consultants, Inc.

650 West Lake Street, Suite 420 | Chicago, IL 60661
P (312) 575-0014 | F (312) 575-0111 | C (312) 443-2958
rmobrien@terracon.com | terracon.com



From: Craig Chawla [mailto:cchawla@statanalysis.com]
Sent: Friday, August 28, 2015 1:17 PM
To: O'Brien, Richard M
Subject: 11157109, IDOT FAU 297, New Lenox /Joliet, IL 15080846

Richard,

Attached is the report for project 11157109, IDOT FAU 297, New Lenox /Joliet, IL received 8/21/2015.

Let me know if additional analysis is needed for this project.

Something to note that I did not think about earlier, Sodium Hydroxide is part of the TCLP extraction fluid, so Sodium is not reported on TCLP metals.

Craig Chawla
STAT Analysis Corporation
(312)733-0551

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<<15080846(Terracon)Rev0.pdf>> <<15080846(Terracon)Rev0.xls>>

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

8/28/2015

STAT Analysis Corporation

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September 13, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080905 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 2 samples for the referenced project on 8/24/2015 6:50:00 PM. The analytical results are presented in the following report.

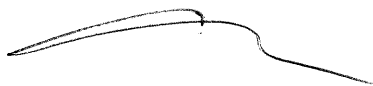
This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080905 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080905-001A	2697-3-B07 (0-2.5)		8/24/2015 12:45:00 PM	8/24/2015
15080905-001B	2697-3-B07 (0-2.5)		8/24/2015 12:45:00 PM	8/24/2015
15080905-002A	2697-3-B08 (0-2.5)		8/24/2015 1:10:00 PM	8/24/2015
15080905-002B	2697-3-B08 (0-2.5)		8/24/2015 1:10:00 PM	8/24/2015

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Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B07 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 12:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.074		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0050		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0099		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.074		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.050		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0099		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0050		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0099		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0099		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Toluene	0.0059	0.0050		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.035		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

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* - Non-accredited parameter

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R - RPD outside accepted recovery limits

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H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B07 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 12:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Aniline	ND	0.35		mg/Kg-dry	1	8/28/2015
Anthracene	0.051	0.035		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	0.21	0.035		mg/Kg-dry	1	8/28/2015
Benzidine	ND	0.35		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	0.22	0.035		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	0.22	0.035		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	0.13	0.035		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	0.19	0.035		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.88		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.88		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.18		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.35		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/28/2015
Chrysene	0.22	0.035		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	0.064	0.035		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.18		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.35		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.88		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	8/28/2015

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 E - Value above quantitation range
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Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B07 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 12:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/26/2015 Analyst: DM

Fluoranthene	0.43	0.035		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.035		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.18		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	0.12	0.035		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.18		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.18		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.18		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.035		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.35		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.035		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.035		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.18		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.071		mg/Kg-dry	1	8/28/2015
Phenanthrene	0.17	0.035		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.18		mg/Kg-dry	1	8/28/2015
Pyrene	0.35	0.035		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.71		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/28/2015

Pesticides SW8081 (SW3550B) Prep Date: 8/26/2015 Analyst: GVC

4,4'-DDD	ND	0.0017		mg/Kg-dry	1	8/27/2015
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	8/27/2015
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	8/27/2015
Aldrin	ND	0.0017		mg/Kg-dry	1	8/27/2015
alpha-BHC	ND	0.0017		mg/Kg-dry	1	8/27/2015
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	8/27/2015
beta-BHC	ND	0.0017		mg/Kg-dry	1	8/27/2015

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Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)				Prep Date: 8/26/2015	Analyst: GVC
Chlordane	ND	0.017		mg/Kg-dry	1	8/27/2015
delta-BHC	ND	0.0017		mg/Kg-dry	1	8/27/2015
Dieldrin	ND	0.0017		mg/Kg-dry	1	8/27/2015
Endosulfan I	ND	0.0017		mg/Kg-dry	1	8/27/2015
Endosulfan II	ND	0.0017		mg/Kg-dry	1	8/27/2015
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	8/27/2015
Endrin	ND	0.0017		mg/Kg-dry	1	8/27/2015
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	8/27/2015
Endrin ketone	ND	0.0017		mg/Kg-dry	1	8/27/2015
gamma-BHC	ND	0.0017		mg/Kg-dry	1	8/27/2015
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	8/27/2015
Heptachlor	ND	0.0017		mg/Kg-dry	1	8/27/2015
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	8/27/2015
Methoxychlor	ND	0.0017		mg/Kg-dry	1	8/27/2015
Toxaphene	ND	0.035		mg/Kg-dry	1	8/27/2015
Herbicides in Soil	SW8321A (SW3550B)				Prep Date: 8/26/2015	Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0035		mg/Kg-dry	1	8/26/2015
2,4-D	ND	0.0035		mg/Kg-dry	1	8/26/2015
Carbofuran	ND	0.0070	*	mg/Kg-dry	1	8/26/2015
Dicamba	ND	0.0070		mg/Kg-dry	1	8/26/2015
MCPA	ND	0.0070		mg/Kg-dry	1	8/26/2015
MCPP	ND	0.0035		mg/Kg-dry	1	8/26/2015
Pentachlorophenol	ND	0.011	*	mg/Kg-dry	1	8/26/2015
Picloram	ND	0.0070	*	mg/Kg-dry	1	8/26/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/25/2015	Analyst: JG
Antimony	ND	2.0		mg/Kg-dry	10	8/25/2015
Arsenic	6.2	0.98		mg/Kg-dry	10	8/25/2015
Barium	19	0.98		mg/Kg-dry	10	8/25/2015
Beryllium	ND	0.49		mg/Kg-dry	10	8/26/2015
Cadmium	ND	0.49		mg/Kg-dry	10	8/25/2015
Calcium	81000	59		mg/Kg-dry	10	8/25/2015
Chromium	6.9	0.98		mg/Kg-dry	10	8/25/2015
Cobalt	5.6	0.98		mg/Kg-dry	10	8/25/2015
Copper	11	2.5		mg/Kg-dry	10	8/25/2015
Iron	11000	29		mg/Kg-dry	10	8/25/2015
Lead	11	0.49		mg/Kg-dry	10	8/25/2015
Magnesium	42000	29		mg/Kg-dry	10	8/25/2015

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Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Manganese	360	0.98		mg/Kg-dry	10	8/25/2015
Nickel	12	0.98		mg/Kg-dry	10	8/25/2015
Potassium	720	29		mg/Kg-dry	10	8/25/2015
Selenium	1.1	0.98		mg/Kg-dry	10	8/25/2015
Silver	ND	0.98		mg/Kg-dry	10	8/25/2015
Sodium	630	59		mg/Kg-dry	10	8/25/2015
Thallium	ND	0.98		mg/Kg-dry	10	8/25/2015
Vanadium	10	0.98		mg/Kg-dry	10	8/25/2015
Zinc	32	4.9		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.31	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.18	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Chromium	0.011	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	2.7	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	76	0.25		mg/L	5	8/26/2015
Manganese	1.2	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.7	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury						
	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury						
	SW7471A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	8/25/2015
Cyanide, Leached						
	SW1312/9012A			Prep Date: 8/27/2015		Analyst: YZ

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Matrix: Soil

Lab ID: 15080905-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/27/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.27		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.9			pH Units	1	Prep Date: 8/25/2015 Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 7.2	0.2	*	wt%	1	Prep Date: 8/24/2015 Analyst: GH 8/25/2015

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Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B08 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.066		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.066		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.044		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0089		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/28/2015

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Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/26/2015	Analyst: DM
Aniline	ND	0.37		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzidine	ND	0.37		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	0.064	0.037		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	0.058	0.037		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	0.055	0.037		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.93		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.93		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.93		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B08 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.075		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.75		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pesticides		SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	8/27/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	8/27/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	8/27/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	8/27/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	8/27/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	8/27/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	8/27/2015

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B08 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)				Prep Date: 8/26/2015	Analyst: GVC
Chlordane	ND	0.018		mg/Kg-dry	1	8/27/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	8/27/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	8/27/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	8/27/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	8/27/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	8/27/2015
Endrin	ND	0.0018		mg/Kg-dry	1	8/27/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	8/27/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	8/27/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	8/27/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	8/27/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	8/27/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	8/27/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	8/27/2015
Toxaphene	ND	0.037		mg/Kg-dry	1	8/27/2015
Herbicides in Soil	SW8321A (SW3550B)				Prep Date: 8/26/2015	Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0036		mg/Kg-dry	1	8/26/2015
2,4-D	ND	0.0036		mg/Kg-dry	1	8/26/2015
Carbofuran	ND	0.0074	*	mg/Kg-dry	1	8/26/2015
Dicamba	ND	0.0074		mg/Kg-dry	1	8/26/2015
MCPA	ND	0.0074		mg/Kg-dry	1	8/26/2015
MCPP	ND	0.0036		mg/Kg-dry	1	8/26/2015
Pentachlorophenol	ND	0.011	*	mg/Kg-dry	1	8/26/2015
Picloram	ND	0.0074	*	mg/Kg-dry	1	8/26/2015
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/25/2015	Analyst: JG
Antimony	ND	2.0		mg/Kg-dry	10	8/25/2015
Arsenic	13	1.0		mg/Kg-dry	10	8/25/2015
Barium	71	1.0		mg/Kg-dry	10	8/25/2015
Beryllium	0.75	0.51		mg/Kg-dry	10	8/26/2015
Cadmium	ND	0.51		mg/Kg-dry	10	8/25/2015
Calcium	35000	61		mg/Kg-dry	10	8/25/2015
Chromium	15	1.0		mg/Kg-dry	10	8/25/2015
Cobalt	11	1.0		mg/Kg-dry	10	8/25/2015
Copper	26	2.6		mg/Kg-dry	10	8/25/2015
Iron	25000	31		mg/Kg-dry	10	8/25/2015
Lead	27	0.51		mg/Kg-dry	10	8/25/2015
Magnesium	20000	31		mg/Kg-dry	10	8/25/2015

ND - Not Detected at the Reporting Limit

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Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B08 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Manganese	600	1.0		mg/Kg-dry	10	8/25/2015
Nickel	24	1.0		mg/Kg-dry	10	8/25/2015
Potassium	1100	31		mg/Kg-dry	10	8/25/2015
Selenium	2.2	1.0		mg/Kg-dry	10	8/25/2015
Silver	ND	1.0		mg/Kg-dry	10	8/25/2015
Sodium	1000	61		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/25/2015
Vanadium	22	1.0		mg/Kg-dry	10	8/25/2015
Zinc	79	5.1		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.24	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.43	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Chromium	0.011	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	2.0	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	120	0.25		mg/L	5	8/26/2015
Manganese	0.91	0.20		mg/L	100	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	2.5	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury						
	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury						
	SW7471A			Prep Date: 8/25/2015		Analyst: LB
Mercury	0.035	0.022		mg/Kg-dry	1	8/25/2015
Cyanide, Leached						
	SW1312/9012A			Prep Date: 8/27/2015		Analyst: YZ

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Date Reported: September 13, 2015

ANALYTICAL RESULTS

Date Printed: September 13, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B08 (0-2.5)

Work Order: 15080905 Revision 1

Collection Date: 8/24/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080905-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/27/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.4			pH Units	1	Prep Date: 8/25/2015 Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 10.9	0.2	*	wt%	1	Prep Date: 8/24/2015 Analyst: GH 8/25/2015

Qualifiers:

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 * - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits
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 H - Holding time exceeded

Sample Receipt Checklist

Client Name TERRACON-NAPERVILLE

Date and Time Received: 8/21/2015 6:50:00 PM


Work Order Number 15080905

Received by: DO

Checklist completed by:

Signature:  Date: 8/24/15

Reviewed by:

Initials:  Date: 8/25/15

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 2.7 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by:
- Water - Samples properly preserved? Yes No pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080905

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Thursday, September 10, 2015 5:53 PM
To: Craig Chawla; Frank Capoccia
Subject: RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080905

Craig,

Regarding above referenced report, please analyze the following samples for SPLP Manganese:

2697-3-B07 (0-2.5)
2697-3-B08 (0-2.5)

Please provide results by noon Monday 9/14/2015.

Thanks,

Richard O'Brien, P.E.
Senior Project Engineer
Environmental Services

Terracon Consultants, Inc.

650 West Lake Street, Suite 420 | Chicago, IL 60661
P (312) 575-0014 | F (312) 575-0111 | C (312) 443-2958
rmobrien@terracon.com | terracon.com



From: Craig Chawla [mailto:cchawla@statanalysis.com]
Sent: Tuesday, September 1, 2015 2:02 PM
To: O'Brien, Richard M
Subject: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080905

Richard,

Attached is the report for project 11157109, IDOT FAU 297, New Lenox / Joliet, IL received 8/24/2015.

Let me know if additional analysis is needed for this project.

Craig Chawla
STAT Analysis Corporation
(312)733-0551

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<<15080905(Terracon)Rev0.pdf>> <<15080905(Terracon)Rev0.xls>>

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

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September 08, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080948 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 6 samples for the referenced project on 8/25/2015 6:55:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080948 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080948-001A	2697-3-B01 (0-4)		8/25/2015	8/25/2015
15080948-001B	2697-3-B01 (0-4)		8/25/2015	8/25/2015
15080948-002A	2697-3-B02 (0-4)		8/25/2015	8/25/2015
15080948-002B	2697-3-B02 (0-4)		8/25/2015	8/25/2015
15080948-003A	2697-3-B02 DUP (0-4)		8/25/2015	8/25/2015
15080948-003B	2697-3-B02 DUP (0-4)		8/25/2015	8/25/2015
15080948-004A	2697-3-B03 (0-2.5)		8/25/2015	8/25/2015
15080948-004B	2697-3-B03 (0-2.5)		8/25/2015	8/25/2015
15080948-005A	2697-3-B04 (0-3)		8/25/2015	8/25/2015
15080948-005B	2697-3-B04 (0-3)		8/25/2015	8/25/2015
15080948-006A	2697-3-B05 (0-4)		8/25/2015	8/25/2015
15080948-006B	2697-3-B05 (0-4)		8/25/2015	8/25/2015

CLIENT: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080948 Revision 1

CASE NARRATIVE

The VOC soil Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyzed 08/29/2015 had recovery of Chloromethane outside of control limits (68% (LCS) recovery, QC limits 70-130%).

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B01 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.063		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0042		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0042		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0042		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.0085		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.063		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.042		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0042		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0042		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.0085		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0042		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.0085		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0042		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0042		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.0085		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0042		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0042		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0042		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0042		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0042		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0042		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0042		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/31/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B01 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/31/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B01 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.76		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/31/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	8/29/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	8/29/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	8/29/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	8/29/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B01 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.018		mg/Kg-dry	1	8/29/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	8/29/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	8/29/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	8/29/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	8/29/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	8/29/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	8/29/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/26/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0038		mg/Kg-dry	1	8/27/2015
2,4-D	ND	0.0038		mg/Kg-dry	1	8/27/2015
Carbofuran	ND	0.0077	*	mg/Kg-dry	1	8/27/2015
Dicamba	ND	0.0077		mg/Kg-dry	1	8/27/2015
MCPA	ND	0.0077		mg/Kg-dry	1	8/27/2015
MCPP	ND	0.0038		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.011	*	mg/Kg-dry	1	8/27/2015
Picloram	ND	0.0077	*	mg/Kg-dry	1	8/27/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	8/26/2015
Arsenic	13	1.1		mg/Kg-dry	10	8/26/2015
Barium	21	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.55	0.54		mg/Kg-dry	10	8/26/2015
Cadmium	0.72	0.54		mg/Kg-dry	10	8/26/2015
Calcium	59000	65		mg/Kg-dry	10	8/26/2015
Chromium	7.5	1.1		mg/Kg-dry	10	8/26/2015
Cobalt	6.7	1.1		mg/Kg-dry	10	8/26/2015
Copper	18	2.7		mg/Kg-dry	10	8/26/2015
Iron	15000	32		mg/Kg-dry	10	8/26/2015
Lead	14	0.54		mg/Kg-dry	10	8/26/2015
Magnesium	33000	32		mg/Kg-dry	10	8/26/2015

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Matrix: Soil

Lab ID: 15080948-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Manganese	440	1.1		mg/Kg-dry	10	8/26/2015
Nickel	16	1.1		mg/Kg-dry	10	8/26/2015
Potassium	710	32		mg/Kg-dry	10	8/26/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	190	65		mg/Kg-dry	10	8/26/2015
Thallium	1.2	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	11	1.1		mg/Kg-dry	10	8/26/2015
Zinc	65	5.4		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/27/2015		Analyst: JG
Manganese	0.026	0.0040		mg/L	2	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	9/1/2015
Arsenic	ND	0.20		mg/L	100	8/26/2015
Barium	ND	1.0		mg/L	100	8/26/2015
Beryllium	ND	0.0050		mg/L	5	9/1/2015
Cadmium	ND	0.10		mg/L	100	8/26/2015
Calcium	360	0.50		mg/L	5	8/27/2015
Chromium	ND	0.20		mg/L	100	8/26/2015
Cobalt	ND	0.20		mg/L	100	8/26/2015
Copper	ND	2.0		mg/L	100	8/26/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.10		mg/L	100	8/26/2015
Magnesium	160	0.25		mg/L	5	8/27/2015
Manganese	2.2	0.20		mg/L	100	8/26/2015
Nickel	ND	0.40		mg/L	100	8/26/2015
Potassium	ND	5.0		mg/L	100	8/26/2015
Selenium	ND	0.20		mg/L	100	8/26/2015
Silver	ND	0.20		mg/L	100	8/26/2015
Thallium	ND	0.10		mg/L	100	8/26/2015
Vanadium	ND	0.20		mg/L	100	8/26/2015
Zinc	ND	1.0		mg/L	100	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/26/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/26/2015
Mercury	SW7471A			Prep Date: 8/26/2015		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	8/26/2015

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Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/31/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/31/2015
Cyanide, Total	SW9012A				Prep Date: 8/26/2015	Analyst: YZ
Cyanide	ND	0.29		mg/Kg-dry	1	8/27/2015
pH (25 °C)	SW9045C				Prep Date: 8/27/2015	Analyst: GH
pH	8.3			pH Units	1	8/27/2015
Percent Moisture	D2974				Prep Date: 8/25/2015	Analyst: RW
Percent Moisture	12.8	0.2	*	wt%	1	8/26/2015

Qualifiers:

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ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B02 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.076		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0050		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.010		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.076		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.050		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.010		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0050		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.010		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.010		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.040		mg/Kg-dry	1	8/31/2015

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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B02 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.40		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.40		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.040		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/31/2015

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Client Sample ID: 2697-3-B02 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.040		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.040		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.040		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.040		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.081		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.040		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.040		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.81		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/31/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	8/29/2015
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	8/29/2015
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	8/29/2015
Aldrin	ND	0.0019		mg/Kg-dry	1	8/29/2015
alpha-BHC	ND	0.0019		mg/Kg-dry	1	8/29/2015
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	8/29/2015
beta-BHC	ND	0.0019		mg/Kg-dry	1	8/29/2015

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Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.019		mg/Kg-dry	1	8/29/2015
delta-BHC	ND	0.0019		mg/Kg-dry	1	8/29/2015
Dieldrin	ND	0.0019		mg/Kg-dry	1	8/29/2015
Endosulfan I	ND	0.0019		mg/Kg-dry	1	8/29/2015
Endosulfan II	ND	0.0019		mg/Kg-dry	1	8/29/2015
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	8/29/2015
Endrin	ND	0.0019		mg/Kg-dry	1	8/29/2015
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	8/29/2015
Endrin ketone	ND	0.0019		mg/Kg-dry	1	8/29/2015
gamma-BHC	ND	0.0019		mg/Kg-dry	1	8/29/2015
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	8/29/2015
Heptachlor	ND	0.0019		mg/Kg-dry	1	8/29/2015
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	8/29/2015
Methoxychlor	ND	0.0019		mg/Kg-dry	1	8/29/2015
Toxaphene	ND	0.040		mg/Kg-dry	1	8/29/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/26/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0040		mg/Kg-dry	1	8/27/2015
2,4-D	ND	0.0040		mg/Kg-dry	1	8/27/2015
Carbofuran	ND	0.0082	*	mg/Kg-dry	1	8/27/2015
Dicamba	ND	0.0082		mg/Kg-dry	1	8/27/2015
MCPA	ND	0.0082		mg/Kg-dry	1	8/27/2015
MCPP	ND	0.0040		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.012	*	mg/Kg-dry	1	8/27/2015
Picloram	ND	0.0082	*	mg/Kg-dry	1	8/27/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.4		mg/Kg-dry	10	8/27/2015
Arsenic	18	1.2		mg/Kg-dry	10	8/27/2015
Barium	120	1.2		mg/Kg-dry	10	8/27/2015
Beryllium	1.2	0.59		mg/Kg-dry	10	8/27/2015
Cadmium	1.1	0.59		mg/Kg-dry	10	8/27/2015
Calcium	38000	71		mg/Kg-dry	10	8/26/2015
Chromium	22	1.2		mg/Kg-dry	10	8/27/2015
Cobalt	14	1.2		mg/Kg-dry	10	8/27/2015
Copper	27	2.9		mg/Kg-dry	10	8/27/2015
Iron	28000	35		mg/Kg-dry	10	8/26/2015
Lead	37	0.59		mg/Kg-dry	10	8/27/2015
Magnesium	20000	35		mg/Kg-dry	10	8/26/2015

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Client Sample ID: 2697-3-B02 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Manganese	730	1.2		mg/Kg-dry	10	8/27/2015
Nickel	34	1.2		mg/Kg-dry	10	8/27/2015
Potassium	1700	35		mg/Kg-dry	10	8/27/2015
Selenium	1.4	1.2		mg/Kg-dry	10	8/27/2015
Silver	ND	1.2		mg/Kg-dry	10	8/27/2015
Sodium	1400	71		mg/Kg-dry	10	8/27/2015
Thallium	1.3	1.2		mg/Kg-dry	10	8/27/2015
Vanadium	32	1.2		mg/Kg-dry	10	8/27/2015
Zinc	100	5.9		mg/Kg-dry	10	8/27/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/27/2015		Analyst: JG	
Manganese	0.12	0.0040		mg/L	2	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	9/1/2015
Arsenic	ND	0.20		mg/L	100	8/26/2015
Barium	ND	1.0		mg/L	100	8/26/2015
Beryllium	ND	0.0050		mg/L	5	9/1/2015
Cadmium	ND	0.10		mg/L	100	8/26/2015
Calcium	72	0.50		mg/L	5	8/27/2015
Chromium	ND	0.20		mg/L	100	8/26/2015
Cobalt	ND	0.20		mg/L	100	8/26/2015
Copper	ND	2.0		mg/L	100	8/26/2015
Iron	0.35	0.25		mg/L	5	8/27/2015
Lead	ND	0.10		mg/L	100	8/26/2015
Magnesium	24	0.25		mg/L	5	8/27/2015
Manganese	11	0.20		mg/L	100	8/26/2015
Nickel	ND	0.40		mg/L	100	8/26/2015
Potassium	ND	5.0		mg/L	100	8/26/2015
Selenium	ND	0.20		mg/L	100	8/26/2015
Silver	ND	0.20		mg/L	100	8/26/2015
Thallium	ND	0.10		mg/L	100	8/26/2015
Vanadium	ND	0.20		mg/L	100	8/26/2015
Zinc	ND	1.0		mg/L	100	8/26/2015
TCLP Mercury	SW1311/7470A		Prep Date: 8/26/2015		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	8/26/2015
Mercury	SW7471A		Prep Date: 8/26/2015		Analyst: LB	
Mercury	0.052	0.023		mg/Kg-dry	1	8/26/2015

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Client Sample ID: 2697-3-B02 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/31/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/31/2015
Cyanide, Total	SW9012A				Prep Date: 8/26/2015	Analyst: YZ
Cyanide	ND	0.31		mg/Kg-dry	1	8/27/2015
pH (25 °C)	SW9045C				Prep Date: 8/27/2015	Analyst: GH
pH	8.0			pH Units	1	8/27/2015
Percent Moisture	D2974				Prep Date: 8/25/2015	Analyst: RW
Percent Moisture	18.1	0.2	*	wt%	1	8/26/2015

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Client Sample ID: 2697-3-B02 DUP (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.064		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0043		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0043		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0043		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0086		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.064		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.043		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0043		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0043		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0086		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0043		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0086		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0043		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0043		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0086		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0043		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0043		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0043		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0043		mg/Kg-dry	1	8/30/2015
Toluene	0.0058	0.0043		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0043		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0043		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/31/2015

Qualifiers:
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 HT - Sample received past holding time
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B02 DUP (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.95		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

Qualifiers:

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B02 DUP (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	8/29/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	8/29/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	8/29/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	8/29/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B02 DUP (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.018		mg/Kg-dry	1	8/29/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	8/29/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	8/29/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	8/29/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	8/29/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	8/29/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	8/29/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/26/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0038		mg/Kg-dry	1	8/27/2015
2,4-D	ND	0.0038		mg/Kg-dry	1	8/27/2015
Carbofuran	ND	0.0077	*	mg/Kg-dry	1	8/27/2015
Dicamba	ND	0.0077		mg/Kg-dry	1	8/27/2015
MCPA	ND	0.0077		mg/Kg-dry	1	8/27/2015
MCPP	ND	0.0038		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.012	*	mg/Kg-dry	1	8/27/2015
Picloram	ND	0.0077	*	mg/Kg-dry	1	8/27/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	8/27/2015
Arsenic	14	1.1		mg/Kg-dry	10	8/27/2015
Barium	92	1.1		mg/Kg-dry	10	8/27/2015
Beryllium	0.98	0.56		mg/Kg-dry	10	8/27/2015
Cadmium	0.98	0.56		mg/Kg-dry	10	8/27/2015
Calcium	57000	67		mg/Kg-dry	10	8/26/2015
Chromium	19	1.1		mg/Kg-dry	10	8/27/2015
Cobalt	13	1.1		mg/Kg-dry	10	8/27/2015
Copper	22	2.8		mg/Kg-dry	10	8/27/2015
Iron	25000	34		mg/Kg-dry	10	8/26/2015
Lead	20	0.56		mg/Kg-dry	10	8/27/2015
Magnesium	28000	34		mg/Kg-dry	10	8/26/2015

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ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B02 DUP (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Manganese	640	1.1		mg/Kg-dry	10	8/27/2015
Nickel	33	1.1		mg/Kg-dry	10	8/27/2015
Potassium	1600	34		mg/Kg-dry	10	8/27/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/27/2015
Silver	ND	1.1		mg/Kg-dry	10	8/27/2015
Sodium	920	67		mg/Kg-dry	10	8/27/2015
Thallium	1.3	1.1		mg/Kg-dry	10	8/27/2015
Vanadium	20	1.1		mg/Kg-dry	10	8/26/2015
Zinc	68	5.6		mg/Kg-dry	10	8/27/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/27/2015		Analyst: JG	
Manganese	0.048	0.0040		mg/L	2	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	9/1/2015
Arsenic	ND	0.20		mg/L	100	8/26/2015
Barium	ND	1.0		mg/L	100	8/26/2015
Beryllium	ND	0.0050		mg/L	5	9/1/2015
Cadmium	ND	0.10		mg/L	100	8/26/2015
Calcium	490	0.50		mg/L	5	8/27/2015
Chromium	ND	0.20		mg/L	100	8/26/2015
Cobalt	ND	0.20		mg/L	100	8/26/2015
Copper	ND	2.0		mg/L	100	8/26/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.10		mg/L	100	8/26/2015
Magnesium	87	0.25		mg/L	5	8/27/2015
Manganese	1.7	0.20		mg/L	100	8/26/2015
Nickel	ND	0.40		mg/L	100	8/26/2015
Potassium	ND	5.0		mg/L	100	8/26/2015
Selenium	ND	0.20		mg/L	100	8/26/2015
Silver	ND	0.20		mg/L	100	8/26/2015
Thallium	ND	0.10		mg/L	100	8/26/2015
Vanadium	ND	0.20		mg/L	100	8/26/2015
Zinc	ND	1.0		mg/L	100	8/26/2015
TCLP Mercury	SW1311/7470A		Prep Date: 8/26/2015		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	8/26/2015
Mercury	SW7471A		Prep Date: 8/26/2015		Analyst: LB	
Mercury	0.021	0.018		mg/Kg-dry	1	8/26/2015

Qualifiers:
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Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/31/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/31/2015
Cyanide, Total	SW9012A				Prep Date: 8/26/2015	Analyst: YZ
Cyanide	ND	0.29		mg/Kg-dry	1	8/27/2015
pH (25 °C)	SW9045C				Prep Date: 8/27/2015	Analyst: GH
pH	8.4			pH Units	1	8/27/2015
Percent Moisture	D2974				Prep Date: 8/25/2015	Analyst: RW
Percent Moisture	13.7	0.2	*	wt%	1	8/26/2015

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B03 (0-2.5)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.089		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0059		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0059		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0059		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.012		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.089		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.059		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0059		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0059		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.012		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0059		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.012		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0059		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0059		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0059		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0059		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0059		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0059		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.024		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.012		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0059		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0059		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0059		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0059		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0059		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0059		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0059		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0059		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0059		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.018		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.045		mg/Kg-dry	1	8/31/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B03 (0-2.5)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.45		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.45		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	1.1		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.23		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.45		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.045		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.045		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.23		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.45		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.045		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.045		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.23		mg/Kg-dry	1	8/31/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B03 (0-2.5)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.045		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.045		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.23		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.045		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.23		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.45		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.045		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.045		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.23		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.23		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.091		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.045		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.91		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	8/31/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0022		mg/Kg-dry	1	8/29/2015
4,4'-DDE	ND	0.0022		mg/Kg-dry	1	8/29/2015
4,4'-DDT	ND	0.0022		mg/Kg-dry	1	8/29/2015
Aldrin	ND	0.0022		mg/Kg-dry	1	8/29/2015
alpha-BHC	ND	0.0022		mg/Kg-dry	1	8/29/2015
alpha-Chlordane	ND	0.0022		mg/Kg-dry	1	8/29/2015
beta-BHC	ND	0.0022		mg/Kg-dry	1	8/29/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B03 (0-2.5)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.022		mg/Kg-dry	1	8/29/2015
delta-BHC	ND	0.0022		mg/Kg-dry	1	8/29/2015
Dieldrin	ND	0.0022		mg/Kg-dry	1	8/29/2015
Endosulfan I	ND	0.0022		mg/Kg-dry	1	8/29/2015
Endosulfan II	ND	0.0022		mg/Kg-dry	1	8/29/2015
Endosulfan sulfate	ND	0.0022		mg/Kg-dry	1	8/29/2015
Endrin	ND	0.0022		mg/Kg-dry	1	8/29/2015
Endrin aldehyde	ND	0.0022		mg/Kg-dry	1	8/29/2015
Endrin ketone	ND	0.0022		mg/Kg-dry	1	8/29/2015
gamma-BHC	ND	0.0022		mg/Kg-dry	1	8/29/2015
gamma-Chlordane	ND	0.0022		mg/Kg-dry	1	8/29/2015
Heptachlor	ND	0.0022		mg/Kg-dry	1	8/29/2015
Heptachlor epoxide	ND	0.0022		mg/Kg-dry	1	8/29/2015
Methoxychlor	ND	0.0022		mg/Kg-dry	1	8/29/2015
Toxaphene	ND	0.045		mg/Kg-dry	1	8/29/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/26/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0045		mg/Kg-dry	1	8/27/2015
2,4-D	ND	0.0045		mg/Kg-dry	1	8/27/2015
Carbofuran	ND	0.0091	*	mg/Kg-dry	1	8/27/2015
Dicamba	ND	0.0091		mg/Kg-dry	1	8/27/2015
MCPA	ND	0.0091		mg/Kg-dry	1	8/27/2015
MCPP	ND	0.0045		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.014	*	mg/Kg-dry	1	8/27/2015
Picloram	ND	0.0091	*	mg/Kg-dry	1	8/27/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.5		mg/Kg-dry	10	8/27/2015
Arsenic	17	1.2		mg/Kg-dry	10	8/27/2015
Barium	160	1.2		mg/Kg-dry	10	8/27/2015
Beryllium	1.4	0.62		mg/Kg-dry	10	8/27/2015
Cadmium	1.3	0.62		mg/Kg-dry	10	8/27/2015
Calcium	4200	75		mg/Kg-dry	10	8/26/2015
Chromium	26	1.2		mg/Kg-dry	10	8/27/2015
Cobalt	14	1.2		mg/Kg-dry	10	8/27/2015
Copper	30	3.1		mg/Kg-dry	10	8/27/2015
Iron	29000	37		mg/Kg-dry	10	8/26/2015
Lead	49	0.62		mg/Kg-dry	10	8/27/2015
Magnesium	3900	37		mg/Kg-dry	10	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B03 (0-2.5)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Manganese	1100	1.2		mg/Kg-dry	10	8/27/2015
Nickel	38	1.2		mg/Kg-dry	10	8/27/2015
Potassium	2700	37		mg/Kg-dry	10	8/27/2015
Selenium	1.7	1.2		mg/Kg-dry	10	8/27/2015
Silver	ND	1.2		mg/Kg-dry	10	8/27/2015
Sodium	490	75		mg/Kg-dry	10	8/27/2015
Thallium	1.3	1.2		mg/Kg-dry	10	8/27/2015
Vanadium	29	1.2		mg/Kg-dry	10	8/26/2015
Zinc	110	6.2		mg/Kg-dry	10	8/27/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/27/2015		Analyst: JG
Manganese	0.20	0.0040		mg/L	2	9/4/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	9/1/2015
Arsenic	ND	0.20		mg/L	100	8/26/2015
Barium	ND	1.0		mg/L	100	8/26/2015
Beryllium	ND	0.0050		mg/L	5	9/1/2015
Cadmium	ND	0.10		mg/L	100	8/26/2015
Calcium	83	0.50		mg/L	5	8/27/2015
Chromium	ND	0.20		mg/L	100	8/26/2015
Cobalt	ND	0.20		mg/L	100	8/26/2015
Copper	ND	2.0		mg/L	100	8/26/2015
Iron	0.32	0.25		mg/L	5	8/27/2015
Lead	ND	0.10		mg/L	100	8/26/2015
Magnesium	24	0.25		mg/L	5	8/27/2015
Manganese	12	0.20		mg/L	100	8/26/2015
Nickel	ND	0.40		mg/L	100	8/26/2015
Potassium	9.9	5.0		mg/L	100	8/26/2015
Selenium	ND	0.20		mg/L	100	8/26/2015
Silver	ND	0.20		mg/L	100	8/26/2015
Thallium	ND	0.10		mg/L	100	8/26/2015
Vanadium	ND	0.20		mg/L	100	8/26/2015
Zinc	ND	1.0		mg/L	100	8/26/2015
TCLP Mercury						
	SW1311/7470A			Prep Date: 8/26/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/26/2015
Mercury						
	SW7471A			Prep Date: 8/26/2015		Analyst: LB
Mercury	0.068	0.026		mg/Kg-dry	1	8/26/2015

Qualifiers:
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B03 (0-2.5)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/31/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/31/2015
Cyanide, Total	SW9012A				Prep Date: 8/28/2015	Analyst: MD
Cyanide	ND	0.34		mg/Kg-dry	1	8/31/2015
pH (25 °C)	SW9045C				Prep Date: 8/27/2015	Analyst: GH
pH	7.0			pH Units	1	8/27/2015
Percent Moisture	D2974				Prep Date: 8/25/2015	Analyst: RW
Percent Moisture	26.5	0.2	*	wt%	1	8/26/2015

Qualifiers:
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B04 (0-3)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.072		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0048		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0096		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.072		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0096		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0048		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0096		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0096		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.036		mg/Kg-dry	1	8/31/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B04 (0-3)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.36		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.036		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.036		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.36		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.89		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.89		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.18		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.036		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.18		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.89		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	8/31/2015

Qualifiers:

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HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B04 (0-3)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.036		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.036		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.18		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.18		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.18		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.18		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.036		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.036		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.18		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.072		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.036		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.18		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.036		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.72		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/31/2015
Pesticides	SW8081 (SW3550B)		Prep Date: 8/26/2015		Analyst: GVC	
4,4'-DDD	ND	0.0017		mg/Kg-dry	1	8/29/2015
4,4'-DDE	ND	0.0017		mg/Kg-dry	1	8/29/2015
4,4'-DDT	ND	0.0017		mg/Kg-dry	1	8/29/2015
Aldrin	ND	0.0017		mg/Kg-dry	1	8/29/2015
alpha-BHC	ND	0.0017		mg/Kg-dry	1	8/29/2015
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	8/29/2015
beta-BHC	ND	0.0017		mg/Kg-dry	1	8/29/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B04 (0-3)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.017		mg/Kg-dry	1	8/29/2015
delta-BHC	ND	0.0017		mg/Kg-dry	1	8/29/2015
Dieldrin	ND	0.0017		mg/Kg-dry	1	8/29/2015
Endosulfan I	ND	0.0017		mg/Kg-dry	1	8/29/2015
Endosulfan II	ND	0.0017		mg/Kg-dry	1	8/29/2015
Endosulfan sulfate	ND	0.0017		mg/Kg-dry	1	8/29/2015
Endrin	ND	0.0017		mg/Kg-dry	1	8/29/2015
Endrin aldehyde	ND	0.0017		mg/Kg-dry	1	8/29/2015
Endrin ketone	ND	0.0017		mg/Kg-dry	1	8/29/2015
gamma-BHC	ND	0.0017		mg/Kg-dry	1	8/29/2015
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	8/29/2015
Heptachlor	ND	0.0017		mg/Kg-dry	1	8/29/2015
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	8/29/2015
Methoxychlor	ND	0.0017		mg/Kg-dry	1	8/29/2015
Toxaphene	ND	0.036		mg/Kg-dry	1	8/29/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/26/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0036		mg/Kg-dry	1	8/27/2015
2,4-D	ND	0.0036		mg/Kg-dry	1	8/27/2015
Carbofuran	ND	0.0073	*	mg/Kg-dry	1	8/27/2015
Dicamba	ND	0.0073		mg/Kg-dry	1	8/27/2015
MCPA	ND	0.0073		mg/Kg-dry	1	8/27/2015
MCPP	ND	0.0036		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.011	*	mg/Kg-dry	1	8/27/2015
Picloram	ND	0.0073	*	mg/Kg-dry	1	8/27/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	8/27/2015
Arsenic	14	1.0		mg/Kg-dry	10	8/27/2015
Barium	47	1.0		mg/Kg-dry	10	8/27/2015
Beryllium	0.73	0.52		mg/Kg-dry	10	8/27/2015
Cadmium	0.75	0.52		mg/Kg-dry	10	8/27/2015
Calcium	22000	62		mg/Kg-dry	10	8/26/2015
Chromium	12	1.0		mg/Kg-dry	10	8/27/2015
Cobalt	8.6	1.0		mg/Kg-dry	10	8/27/2015
Copper	25	2.6		mg/Kg-dry	10	8/27/2015
Iron	18000	31		mg/Kg-dry	10	8/26/2015
Lead	19	0.52		mg/Kg-dry	10	8/27/2015
Magnesium	14000	31		mg/Kg-dry	10	8/26/2015

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ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B04 (0-3)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Manganese	760	1.0		mg/Kg-dry	10	8/27/2015
Nickel	24	1.0		mg/Kg-dry	10	8/27/2015
Potassium	960	31		mg/Kg-dry	10	8/27/2015
Selenium	ND	1.0		mg/Kg-dry	10	8/27/2015
Silver	ND	1.0		mg/Kg-dry	10	8/27/2015
Sodium	120	62		mg/Kg-dry	10	8/27/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/27/2015
Vanadium	14	1.0		mg/Kg-dry	10	8/26/2015
Zinc	65	5.2		mg/Kg-dry	10	8/27/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/27/2015		Analyst: JG	
Manganese	0.057	0.0040		mg/L	2	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	9/1/2015
Arsenic	ND	0.20		mg/L	100	8/26/2015
Barium	ND	1.0		mg/L	100	8/26/2015
Beryllium	ND	0.0050		mg/L	5	9/1/2015
Cadmium	ND	0.10		mg/L	100	8/26/2015
Calcium	300	0.50		mg/L	5	8/27/2015
Chromium	ND	0.20		mg/L	100	8/26/2015
Cobalt	ND	0.20		mg/L	100	8/26/2015
Copper	ND	2.0		mg/L	100	8/26/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.10		mg/L	100	8/26/2015
Magnesium	160	0.25		mg/L	5	8/27/2015
Manganese	1.1	0.20		mg/L	100	8/26/2015
Nickel	ND	0.40		mg/L	100	8/26/2015
Potassium	ND	5.0		mg/L	100	8/26/2015
Selenium	ND	0.20		mg/L	100	8/26/2015
Silver	ND	0.20		mg/L	100	8/26/2015
Thallium	ND	0.10		mg/L	100	8/26/2015
Vanadium	ND	0.20		mg/L	100	8/26/2015
Zinc	ND	1.0		mg/L	100	8/26/2015
TCLP Mercury	SW1311/7470A		Prep Date: 8/26/2015		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	8/26/2015
Mercury	SW7471A		Prep Date: 8/26/2015		Analyst: LB	
Mercury	0.023	0.021		mg/Kg-dry	1	8/26/2015

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Client Sample ID: 2697-3-B04 (0-3)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A				Prep Date: 8/31/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/31/2015
Cyanide, Total	SW9012A				Prep Date: 8/28/2015	Analyst: MD
Cyanide	ND	0.27		mg/Kg-dry	1	8/31/2015
pH (25 °C)	SW9045C				Prep Date: 8/27/2015	Analyst: GH
pH	7.5			pH Units	1	8/27/2015
Percent Moisture	D2974				Prep Date: 8/25/2015	Analyst: RW
Percent Moisture	8.3	0.2	*	wt%	1	8/26/2015

Qualifiers:
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 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B05 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS	
Acetone	ND	0.069		mg/Kg-dry	1	8/31/2015
Benzene	ND	0.0046		mg/Kg-dry	1	8/31/2015
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	8/31/2015
Bromoform	ND	0.0046		mg/Kg-dry	1	8/31/2015
Bromomethane	ND	0.0091		mg/Kg-dry	1	8/31/2015
2-Butanone	ND	0.069		mg/Kg-dry	1	8/31/2015
Carbon disulfide	ND	0.046		mg/Kg-dry	1	8/31/2015
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	8/31/2015
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	8/31/2015
Chloroethane	ND	0.0091		mg/Kg-dry	1	8/31/2015
Chloroform	ND	0.0046		mg/Kg-dry	1	8/31/2015
Chloromethane	ND	0.0091		mg/Kg-dry	1	8/31/2015
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	8/31/2015
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/31/2015
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/31/2015
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/31/2015
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	8/31/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2015
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	8/31/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/31/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/31/2015
Methylene chloride	ND	0.0091		mg/Kg-dry	1	8/31/2015
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	8/31/2015
Styrene	ND	0.0046		mg/Kg-dry	1	8/31/2015
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	8/31/2015
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	8/31/2015
Toluene	0.0049	0.0046		mg/Kg-dry	1	8/31/2015
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	8/31/2015
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	8/31/2015
Trichloroethene	ND	0.0046		mg/Kg-dry	1	8/31/2015
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	8/31/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/31/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/31/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B05 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/31/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/31/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/31/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/31/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/31/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/31/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/31/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/31/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/31/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/31/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/31/2015

Qualifiers:

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B05 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)			Prep Date: 8/27/2015		Analyst: DM
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Fluoranthene	ND	0.038		mg/Kg-dry	1	8/31/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/31/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/31/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/31/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/31/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/31/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/31/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/31/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/31/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/31/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/31/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/31/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/31/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/31/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/31/2015

Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
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4,4'-DDD	ND	0.0018		mg/Kg-dry	1	8/29/2015
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	8/29/2015
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	8/29/2015
Aldrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
alpha-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	8/29/2015
beta-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	HT - Sample received past holding time	E - Value above quantitation range
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B05 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	SW8081 (SW3550B)			Prep Date: 8/26/2015		Analyst: GVC
Chlordane	ND	0.018		mg/Kg-dry	1	8/29/2015
delta-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
Dieldrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan I	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan II	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	8/29/2015
Endrin ketone	ND	0.0018		mg/Kg-dry	1	8/29/2015
gamma-BHC	ND	0.0018		mg/Kg-dry	1	8/29/2015
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	8/29/2015
Heptachlor	ND	0.0018		mg/Kg-dry	1	8/29/2015
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	8/29/2015
Methoxychlor	ND	0.0018		mg/Kg-dry	1	8/29/2015
Toxaphene	ND	0.038		mg/Kg-dry	1	8/29/2015
Herbicides in Soil	SW8321A (SW3550B)			Prep Date: 8/26/2015		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0038		mg/Kg-dry	1	8/27/2015
2,4-D	ND	0.0038		mg/Kg-dry	1	8/27/2015
Carbofuran	ND	0.0078	*	mg/Kg-dry	1	8/27/2015
Dicamba	ND	0.0078		mg/Kg-dry	1	8/27/2015
MCPA	ND	0.0078		mg/Kg-dry	1	8/27/2015
MCPP	ND	0.0038		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.012	*	mg/Kg-dry	1	8/27/2015
Picloram	ND	0.0078	*	mg/Kg-dry	1	8/27/2015
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	8/27/2015
Arsenic	13	1.1		mg/Kg-dry	10	8/27/2015
Barium	63	1.1		mg/Kg-dry	10	8/27/2015
Beryllium	0.80	0.54		mg/Kg-dry	10	8/27/2015
Cadmium	0.90	0.54		mg/Kg-dry	10	8/27/2015
Calcium	72000	64		mg/Kg-dry	10	8/26/2015
Chromium	16	1.1		mg/Kg-dry	10	8/27/2015
Cobalt	11	1.1		mg/Kg-dry	10	8/27/2015
Copper	20	2.7		mg/Kg-dry	10	8/27/2015
Iron	21000	32		mg/Kg-dry	10	8/26/2015
Lead	18	0.54		mg/Kg-dry	10	8/27/2015
Magnesium	35000	32		mg/Kg-dry	10	8/26/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-3-B05 (0-4)

Work Order: 15080948 Revision 1

Collection Date: 8/25/2015

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Manganese	740	1.1		mg/Kg-dry	10	8/27/2015
Nickel	28	1.1		mg/Kg-dry	10	8/27/2015
Potassium	1400	32		mg/Kg-dry	10	8/27/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/27/2015
Silver	ND	1.1		mg/Kg-dry	10	8/27/2015
Sodium	610	64		mg/Kg-dry	10	8/27/2015
Thallium	1.3	1.1		mg/Kg-dry	10	8/27/2015
Vanadium	17	1.1		mg/Kg-dry	10	8/26/2015
Zinc	58	5.4		mg/Kg-dry	10	8/27/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/27/2015		Analyst: JG
Manganese	0.030	0.0040		mg/L	2	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	9/1/2015
Arsenic	ND	0.20		mg/L	100	8/26/2015
Barium	ND	1.0		mg/L	100	8/26/2015
Beryllium	ND	0.0050		mg/L	5	9/1/2015
Cadmium	ND	0.10		mg/L	100	8/26/2015
Calcium	710	10		mg/L	100	9/1/2015
Chromium	ND	0.20		mg/L	100	8/26/2015
Cobalt	ND	0.20		mg/L	100	8/26/2015
Copper	ND	2.0		mg/L	100	8/26/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.10		mg/L	100	8/26/2015
Magnesium	45	0.25		mg/L	5	8/27/2015
Manganese	1.2	0.20		mg/L	100	8/26/2015
Nickel	ND	0.40		mg/L	100	8/26/2015
Potassium	ND	5.0		mg/L	100	8/26/2015
Selenium	ND	0.20		mg/L	100	8/26/2015
Silver	ND	0.20		mg/L	100	8/26/2015
Thallium	ND	0.10		mg/L	100	8/26/2015
Vanadium	ND	0.20		mg/L	100	8/26/2015
Zinc	ND	1.0		mg/L	100	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/26/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/26/2015
Mercury	SW7471A			Prep Date: 8/26/2015		Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	8/26/2015

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Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080948-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Leached	SW1312/9012A	(SW1312)			Prep Date: 8/26/2015	Analyst: MD
Cyanide	ND	0.0050		mg/L	1	8/31/2015
Cyanide, Total	SW9012A				Prep Date: 8/28/2015	Analyst: MD
Cyanide	ND	0.29		mg/Kg-dry	1	8/31/2015
pH (25 °C)	SW9045C				Prep Date: 8/27/2015	Analyst: GH
pH	8.2			pH Units	1	8/27/2015
Percent Moisture	D2974				Prep Date: 8/25/2015	Analyst: RW
Percent Moisture	13.9	0.2	*	wt%	1	8/26/2015

Qualifiers:

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded


Sample Receipt Checklist

Client Name TERRACON-NAPERVILLE

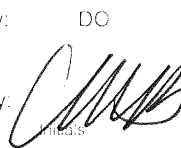
Date and Time Received: 8/25/2015 6:55:00 PM

Work Order Number 15080948

Received by: DO

Checklist completed by: 
Signature

8/25/15
Date

Reviewed by:  8/26/15
Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.2 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080948

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Wednesday, September 02, 2015 3:15 PM
To: Craig Chawla
Subject: RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080948

Hi Crag,

Regarding this project, please run the following for **SPLP Manganese** on Standard turnaround.

2697-3-B01 (0-4)
2697-3-B02 (0-4)
2697-3-B02 DUP (0-4)
2697-3-B03 (0-2.5)
2697-3-B04 (0-3)
2697-3-B05 (0-4)

Please confirm receipt.

Thanks,

Richard O'Brien, P.E.
Senior Project Engineer
Environmental Services

Terracon Consultants, Inc.

650 West Lake Street, Suite 420 | Chicago, IL 60661
P (312) 575-0014 | F (312) 575-0111 | C (312) 443-2958
rmobrien@terracon.com | terracon.com





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

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

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

Project Name: FAU 297 – US Route 6 at Gougar Road Office Phone Number, if available: _____

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

US Route 6 (Southwest Highway) at Gougar Road IDOT STA 93+70 to 96+70 (ISGS Site 2697-5)

City: Joliet/New Lenox State: IL Zip Code: 60432

County: Will Township: New Lenox

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

Latitude: 41.54767 Longitude: -88.00556
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 297 – US Route 6 at Gougar Road

Latitude: 41.54767 Longitude: -88.00556

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 through B02 were sampled adjacent to ISGS Site No 2697-5. See Exhibits 3 and 3B and Table 6 of the Preliminary Site Investigation Report prepared by Terracon dated November 13, 2015.

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

STAT Analysis Corporation Report No 15080907-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 16 , 2015. CCDD/USFO facility in MSA County . Only boring listed above are certified.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 650 West Lake Street, Suite 420

City: Chicago State: IL Zip Code: 60661

Phone: (312) 443-2958

Richard O'Brien, P.E.

Printed Name:



November 13, 2015

Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

P.E. or L.P.G. Seal:

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-5)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 1 of 1

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-5-B01 (0-1)	2697-5-B02 (0-2)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL						
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	08/24/2015	08/24/2015
Volatile Organic Analytical Parameters													
Inorganic Analytical Parameters													
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		11.0	11.0
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		77	79
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		< 0.53	< 0.52
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		15	20
Lead	mg/kg	400	---	700	---	---	*	36	36	107		29	18
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		0.045	0.03
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		1.9	2.2
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 1.1	< 1.0
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.1	< 2.1
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		0.86	0.85
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		35000	26000
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		12	14
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		24	27
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.28	< 0.28
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		22000	25000
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		20000	15000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		590	590
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		26	36
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		1100	1400
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		1100	750
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.1	< 1.0
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		22	24
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		72	61
pH									6.25	9		8.8	8.2
Inorganic Analytical Parameters (SPLP)													
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.23	0.2
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050
Inorganic Analytical Parameters (TCLP)													
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.4	0.49
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		< 0.0050	< 0.0050
Chromium,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		0.012	0.012
Lead,TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		< 0.0050	< 0.0050
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.00020	< 0.00020
Selenium,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		< 0.015	< 0.015
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		< 0.0050	< 0.0050
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		560	240
Cobalt,TCLP	mg/L	---	---	---	---	1	---	---	---	---		< 0.010	< 0.010
Copper,TCLP	mg/L	---	---	---	---	0.65	---	---	---	---		< 0.10	< 0.10
Cyanide,TCLP	mg/L	---	---	---	---	0.2	---	---	---	---		---	---
Iron,TCLP	mg/L	---	---	---	---	5	---	---	---	---		2.5	1.4
Magnesium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		92	99
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.37	0.91
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.020	< 0.020
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.4	2.3
Sodium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		---	---
Thallium,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.0050	< 0.0050
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		< 0.010	< 0.010
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.050	< 0.050

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 03, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080907 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 2 samples for the referenced project on 8/24/2015 6:50:00 PM. The analytical results are presented in the following report.

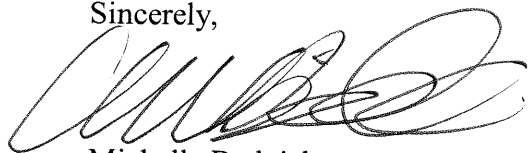
This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Michelle Budniak

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080907 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080907-001A	2697-5-B01 (0-1)		8/24/2015 1:40:00 PM	8/24/2015
15080907-001B	2697-5-B01 (0-1)		8/24/2015 1:40:00 PM	8/24/2015
15080907-002A	2697-5-B02 (0-2)		8/24/2015 1:24:00 PM	8/24/2015
15080907-002B	2697-5-B02 (0-2)		8/24/2015 1:24:00 PM	8/24/2015

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B01 (0-1)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:40:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.076		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0051		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0051		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0051		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.010		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.076		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.051		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0051		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0051		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.010		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0051		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.010		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0051		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0051		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0051		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0051		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.010		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0051		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0051		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0051		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0051		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0051		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0051		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0051		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0051		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.036		mg/Kg-dry	1	8/28/2015

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B01 (0-1)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:40:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.36		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benztidine	ND	0.36		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	0.042	0.036		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	0.053	0.036		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	0.038	0.036		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.91		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.91		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.036		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.91		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B01 (0-1)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:40:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	0.050	0.036		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.036		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.036		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.036		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.073		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.036		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	0.044	0.036		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.73		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.1		mg/Kg-dry	10	8/25/2015
Arsenic	11	1.1		mg/Kg-dry	10	8/25/2015
Barium	77	1.1		mg/Kg-dry	10	8/25/2015
Beryllium	0.86	0.53		mg/Kg-dry	10	8/26/2015
Cadmium	ND	0.53		mg/Kg-dry	10	8/25/2015
Calcium	35000	63		mg/Kg-dry	10	8/25/2015
Chromium	15	1.1		mg/Kg-dry	10	8/25/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 E - Value above quantitation range
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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B01 (0-1)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:40:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Cobalt	12	1.1		mg/Kg-dry	10	8/25/2015
Copper	24	2.6		mg/Kg-dry	10	8/25/2015
Iron	22000	32		mg/Kg-dry	10	8/25/2015
Lead	29	0.53		mg/Kg-dry	10	8/25/2015
Magnesium	20000	32		mg/Kg-dry	10	8/25/2015
Manganese	590	1.1		mg/Kg-dry	10	8/25/2015
Nickel	26	1.1		mg/Kg-dry	10	8/25/2015
Potassium	1100	32		mg/Kg-dry	10	8/25/2015
Selenium	1.9	1.1		mg/Kg-dry	10	8/25/2015
Silver	ND	1.1		mg/Kg-dry	10	8/25/2015
Sodium	1100	63		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/25/2015
Vanadium	22	1.1		mg/Kg-dry	10	8/25/2015
Zinc	72	5.3		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Manganese	0.23	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.40	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	560	10		mg/L	100	8/26/2015
Chromium	0.012	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	2.5	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	92	0.25		mg/L	5	8/26/2015
Manganese	0.37	0.20		mg/L	100	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.4	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B01 (0-1)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:40:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.045	0.022		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 8.8			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 10.4	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: RW 8/25/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B02 (0-2)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:24:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.076		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0050		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.010		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.076		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.050		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.010		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0050		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.010		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.010		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0050		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/29/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B02 (0-2)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:24:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.37		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.93		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.93		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.93		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015

Qualifiers:

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B02 (0-2)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:24:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.075		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.75		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	2.1		mg/Kg-dry	10	8/25/2015
Arsenic	11	1.0		mg/Kg-dry	10	8/25/2015
Barium	79	1.0		mg/Kg-dry	10	8/25/2015
Beryllium	0.85	0.52		mg/Kg-dry	10	8/26/2015
Cadmium	ND	0.52		mg/Kg-dry	10	8/25/2015
Calcium	26000	63		mg/Kg-dry	10	8/25/2015
Chromium	20	1.0		mg/Kg-dry	10	8/25/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B02 (0-2)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:24:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Cobalt	14	1.0		mg/Kg-dry	10	8/25/2015
Copper	27	2.6		mg/Kg-dry	10	8/25/2015
Iron	25000	31		mg/Kg-dry	10	8/25/2015
Lead	18	0.52		mg/Kg-dry	10	8/25/2015
Magnesium	15000	31		mg/Kg-dry	10	8/25/2015
Manganese	590	1.0		mg/Kg-dry	10	8/25/2015
Nickel	36	1.0		mg/Kg-dry	10	8/25/2015
Potassium	1400	31		mg/Kg-dry	10	8/25/2015
Selenium	2.2	1.0		mg/Kg-dry	10	8/25/2015
Silver	ND	1.0		mg/Kg-dry	10	8/25/2015
Sodium	750	63		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/25/2015
Vanadium	24	1.0		mg/Kg-dry	10	8/25/2015
Zinc	61	5.2		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Manganese	0.20	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.49	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	240	10		mg/L	100	8/26/2015
Chromium	0.012	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	1.4	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	99	0.25		mg/L	5	8/26/2015
Manganese	0.91	0.20		mg/L	100	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	2.3	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-5-B02 (0-2)

Work Order: 15080907 Revision 1

Collection Date: 8/24/2015 1:24:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080907-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.030	0.018		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: YZ 8/27/2015
pH (25 °C) pH	SW9045C 8.2			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 12.1	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: RW 8/25/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

Sample Receipt Checklist


Client Name TERRACON-NAPERVILLE

Date and Time Received: 8/24/2015 6:50:00 PM

Work Order Number 15080907

Received by: DO

Checklist completed by:  = 8/24/15
 Signature Date

Reviewed by:  8/25/15
 Signature Date

Matrix: Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ✓	No	Not Present
Custody seals intact on shipping container/cooler?	Yes ✓	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present ✓
Chain of custody present?	Yes ✓	No	
Chain of custody signed when relinquished and received?	Yes ✓	No	
Chain of custody agrees with sample labels/containers?	Yes ✓	No	
Samples in proper container/bottle?	Yes ✓	No	
Sample containers intact?	Yes ✓	No	
Sufficient sample volume for indicated test?	Yes ✓	No	
All samples received within holding time?	Yes ✓	No	
Container or Temp Blank temperature in compliance?	Yes ✓	No	Temperature 2.7 °C
Water - VOA vials have zero headspace?	No VOA vials submitted	Yes	No
Water - Samples pH checked?	Yes	No	Checked by:
Water - Samples properly preserved?	Yes	No	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Wednesday, September 02, 2015 7:09 AM
To: Craig Chawla
Subject: Re: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080907

Craig,

Regarding this project, please run the following on standard turnaround:

2697-5-B01 (0-1). SPLP Manganese

2697-5-B02 (0-2) SPLP Manganese

Please confirm receipt.

Richard

On Sep 1, 2015, at 2:32 PM, Craig Chawla <cchawla@statanalysis.com<mailto:cchawla@statanalysis.com>> wrote:

Richard,

Attached is the report for project 11157109, IDOT FAU 297, New Lenox / Joliet, IL received 8/24/2015.

Let me know if additional analysis is needed for this project.

Craig Chawla
STAT Analysis Corporation
(312)733-0551

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<<15080907(Terracon)Rev0.pdf>> <<15080907(Terracon)Rev0.xls>>

<15080907(Terracon)Rev0.pdf>

<15080907(Terracon)Rev0.xls>

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access hyperlink, please e-mail sender.



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

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

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

Project Name: FAU 297 – US Route 6 at Gougar Road Office Phone Number, if available: _____

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

US Route 6 (Southwest Highway) at Gougar Road IDOT STA 93+70 to 209+00 (ISGS Site 2697-7)

City: Joliet/New Lenox State: IL Zip Code: 60432

County: Will Township: New Lenox

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

Latitude: 41.54767 Longitude: -88.00556
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 297 – US Route 6 at Gougar Road

Latitude: 41.54767 Longitude: -88.00556

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B02, B06, B07, B10, B13 through B15 were sampled adjacent to ISGS Site No 2697-7. See Exhibits 2, 2B, 3, 3B, 3C and Table 8 of the Preliminary Site Investigation Report prepared by Terracon dated November 13, 2015.

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

STAT Analysis Corporation Report No 15080847-1 and 15080903-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 16, 2015. CCDD/USFO facility in MSA County. Only boring listed above are certified.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 650 West Lake Street, Suite 420

City: Chicago State: IL Zip Code: 60661

Phone: (312) 443-2958

Richard O'Brien, P.E.

Printed Name:



November 13, 2015

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:



P.E. or L.P.G. Seal:

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-7)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 1 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-7-B01	2697-7-B02	2697-7-B02	2697-7-B03	2697-7-B04	2697-7-B05	2697-7-B06
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL					CCDD	Sample Depth (feet)	(0-1)	(0-2)	DUP (0-2)	(0-2)	(0-2.5)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected			(0-1)	(0-2)	(0-2)	(0-2)	(0-2.5)
							08/24/2015					08/24/2015	08/24/2015	08/24/2015	08/24/2015	08/24/2015	08/24/2015	
Inorganic Analytical Parameters																		
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		14.0	13.0	11.0	14.0	14.0	15.0	13.0
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		130	140	120	93	140	130	30
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		< 0.58	< 0.59	< 0.53	< 0.54	< 0.57	< 0.59	< 0.55
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		24	23	19	24	29	18	13
Lead	mg/kg	400	---	700	---	---	*	36	36	107		25	24	33	27	24	22	13
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		0.047	0.04	0.024	0.044	0.041	0.048	< 0.021
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		3.1	2.3	2.5	3	3.1	3.7	1.8
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.3	< 2.4	< 2.1	< 2.2	< 2.3	< 2.3	< 2.2
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		1.1	1	0.81	1	1.1	1	0.59
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		2200	3600	20000	2200	3100	2900	76000
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		18	15	13	21	22	14	9.1
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		42	37	32	41	35	25	21
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.30	< 0.30	< 0.29	< 0.29	< 0.31	< 0.31	< 0.28
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		31000	29000	25000	32000	34000	29000	23000
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		4900	5700	11000	4900	6300	3800	35000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		530	570	860	750	1000	980	520
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		39	56	27	44	52	36	23
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		1800	1600	1300	1600	2400	1000	1300
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		1300	780	710	990	1200	660	270
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		30	28	27	29	34	30	16
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		73	78	65	82	84	65	74
pH									6.25	9		7.8	7.9	8.1	7.6	7.7	7.3	7.8
Inorganic Analytical Parameters (SPLP)																		
Iron,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	--	--	--	--
Lead,SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---		--	--	--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.12	0.082	0.086	0.14	--	--	0.028
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Inorganic Analytical Parameters (TCLP)																		
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.012	< 0.010	< 0.010	< 0.010
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.24	0.49	0.44	0.2	0.21	0.27	0.21
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0060	< 0.0050	< 0.0050	< 0.0050
Chromium,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.012	< 0.010	< 0.010	< 0.010
Lead,TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0060	< 0.0050	< 0.0050	< 0.0050
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.012	< 0.010	< 0.010	< 0.010
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.012	< 0.010	< 0.010	< 0.010
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		< 0.015	< 0.015	< 0.015	< 0.018	< 0.015	< 0.015	< 0.015
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0060	< 0.0050	< 0.0050	< 0.0050
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		43	470	610	44	46	60	610
Cobalt,TCLP	mg/L	---	---	---	---	1	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.012	< 0.010	< 0.010	< 0.010
Copper,TCLP	mg/L	---	---	---	---	0.65	---	---	---	---		< 0.10	< 0.10	< 0.10	< 0.12	< 0.10	< 0.10	< 0.10
Cyanide,TCLP	mg/L	---	---	---	---	0.2	---	---	---	---		---	---	---	---	---	---	---
Iron,TCLP	mg/L	---	---	---	---	5	---	---	---	---		0.45	< 0.25	< 0.25	< 0.30	< 0.25	1.5	< 0.25
Magnesium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		18	110	43	17	15	25	33
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.29	0.31	0.42	0.23	0.088	0.046	0.99
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.020	< 0.020	< 0.020	< 0.024	< 0.020	< 0.020	< 0.020
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.5	0.89	0.98	1.2	1.2	1.7	1.6
Sodium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		---	---	---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0060	< 0.0050	< 0.0050	< 0.0050
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.012	< 0.010	< 0.010	< 0.010
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.050	< 0.050	< 0.050	< 0.060	< 0.050	< 0.050	< 0.050

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-7)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 2 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-7-B07	2697-7-B08	2697-7-B09	2697-7-B09	2697-7-B09	2697-7-B09	2697-7-B09			
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL					CCDD	Sample Depth (feet)	(0-2.5)	(0-2.5)	(0-5)	(5-10)	(10-15)	(10-15)	(10-15)	(15-20)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I								Chicago	MSAs	mg/kg	Date Collected	08/24/2015	08/24/2015	08/21/2015	08/21/2015
										pH 6.25-9.0											
Inorganic Analytical Parameters																					
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		10.0	14.0	2.3	14.0	14.0	12.0	8.9			
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		35	44	520	39	51	53	34			
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		< 0.52	< 0.52	0.87	0.99	1	1	0.95			
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		13	14	11	12	20	20	16			
Lead	mg/kg	400	---	700	---	---	*	36	36	107		13	15	40	15	19	17	14			
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		< 0.022	0.024	< 0.019	< 0.022	< 0.022	0.019	< 0.023			
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		1.7	1.5	< 1.0	< 1.1	< 1.2	< 1.1	< 1.1			
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 1.0	< 1.0	< 1.0	< 1.1	< 1.2	< 1.1	< 1.1			
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.1	< 2.1	< 2.0	< 2.2	< 2.3	< 2.3	< 2.2			
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		0.6	0.62	< 0.50	< 0.55	0.65	0.72	0.59			
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		76000	72000	170000	62000	64000	68000	73000			
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		9.6	9.8	3.2	8.4	14	13	10			
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		20	22	10	22	25	24	20			
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.28	< 0.28	< 0.27	< 0.30	< 0.30	< 0.30	< 0.29			
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		22000	22000	11000	25000	28000	28000	23000			
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		32000	34000	98000	37000	30000	31000	35000			
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		490	510	250	540	500	450	490			
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		23	24	11	23	34	35	29			
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		1200	1200	990	1100	2000	2200	2100			
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		220	920	1700	2700	970	1000	290			
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.0	< 1.0	< 1.0	< 1.1	< 1.2	< 1.1	< 1.1			
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		17	18	14	17	25	25	20			
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		61	67	150	74	66	66	55			
pH									6.25	9		8	8.3	8.2	7.8	8.1	8.1	7.8			
Inorganic Analytical Parameters (SPLP)																					
Iron,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	--	--	--	--			
Lead,SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---		--	--	--	--	--	--	--			
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.015	0.13	0.042	0.052	0.21	1.5	0.011			
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Inorganic Analytical Parameters (TCLP)																					
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.25	0.3	0.14	0.31	0.23	0.27	0.99			
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Chromium,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.010	0.011	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Lead,TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		< 0.0050	< 0.0050	0.0074	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020			
Selenium,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		650	610	290	290	1100	610	660			
Cobalt,TCLP	mg/L	---	---	---	---	1	---	---	---	---		< 0.010	< 0.010	0.02	0.029	0.049	< 0.010	0.015			
Copper,TCLP	mg/L	---	---	---	---	0.65	---	---	---	---		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Cyanide,TCLP	mg/L	---	---	---	---	0.2	---	---	---	---		---	---	---	---	---	---	---			
Iron,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.25	4.5	< 0.25	1.6	0.87	< 0.25	< 0.25			
Magnesium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		29	24	150	91	300	43	43			
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.55	0.62	0.98	6.7	7	2.5	2.9			
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.020	< 0.020	< 0.020	0.065	0.037	< 0.020	0.02			
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.4	2	1.6	1.4	1	2	4.4			
Sodium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		---	---	---	---	---	---	---			
Thallium,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.050	< 0.050	0.85	0.066	< 0.050	< 0.050	< 0.050			

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-7)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 3 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-7-B10	2697-7-B11	2697-7-B12	2697-7-B13	2697-7-B14	2697-7-B15	2697-7-B15
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL					CCDD	Sample Depth (feet)	(0-2.5)	(0-2.5)	(0-3)	(0-6)	(0-6.5)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected			08/21/2015	08/21/2015	08/21/2015	08/21/2015	08/21/2015
Inorganic Analytical Parameters																		
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		13.0	16.0	16.0	12.0	12.0	11.0	9.7
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		58	100	62	50	26	48	46
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		0.97	1.1	1	< 0.55	1	0.97	1
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		13	24	18	13	11	17	19
Lead	mg/kg	400	---	700	---	---	*	36	36	107		28	37	22	18	14	15	15
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		0.031	0.033	0.026	< 0.020	< 0.020	0.02	0.022
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		< 1.1	< 1.1	< 1.1	1.8	< 1.1	< 1.0	< 1.1
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.2	< 2.2	< 2.3	< 2.2	< 2.2	< 2.1	< 2.2
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		0.61	0.92	0.63	0.69	< 0.56	0.57	0.66
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		69000	25000	51000	68000	74000	80000	65000
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		9.6	17	11	10	8.9	10	10
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		23	33	26	19	21	20	22
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.30	< 0.30	< 0.29	< 0.29	< 0.28	< 0.28	< 0.29
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		25000	39000	28000	23000	21000	24000	25000
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		39000	18000	29000	33000	38000	41000	32000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		670	700	600	450	500	450	460
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		25	42	32	22	26	26	29
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		1200	1800	1300	1500	1300	1600	2000
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		1200	1400	610	380	450	340	300
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		20	29	24	18	16	21	23
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		74	92	74	67	67	65	68
pH									6.25	9		8.4	7.6	7.9	7.7	8.2	7.9	8
Inorganic Analytical Parameters (SPLP)																		
Iron,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	--	--	--	--
Lead,SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---		--	0.013	--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		--	0.12	0.068	0.028	0.063	0.016	0.021
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Inorganic Analytical Parameters (TCLP)																		
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.29	0.56	0.36	0.35	0.2	0.29	0.24
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050
Chromium,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Lead,TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		< 0.0050	0.011	< 0.0050	0.0063	< 0.0050	< 0.0050	< 0.0050
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		390	230	1000	1100	580	630	1000
Cobalt,TCLP	mg/L	---	---	---	---	1	---	---	---	---		< 0.010	0.045	0.06	0.071	< 0.010	< 0.010	0.042
Copper,TCLP	mg/L	---	---	---	---	0.65	---	---	---	---		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cyanide,TCLP	mg/L	---	---	---	---	0.2	---	---	---	---		---	---	---	---	---	---	---
Iron,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.25	2.1	< 0.25	0.72	< 0.25	< 0.25	< 0.25
Magnesium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		110	92	360	300	46	55	370
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.027	20	10	9.5	1.9	0.89	4.8
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.020	0.036	0.081	0.055	< 0.020	< 0.020	0.051
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.1	2.5	1.2	1.2	1.6	1.8	1.1
Sodium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		---	---	---	---	---	---	---
Thallium,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.050	0.6	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-7-B16 (0-1)	2697-7-B17 (0-1)	2697-7-B18 (0-2)	2697-7-B19 (0-2)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL								
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	mg/kg	Date Collected	08/21/2015	08/21/2015	08/21/2015	08/21/2015
													pH 6.25-9.0		
Inorganic Analytical Parameters															
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		20.0	16.0	18.0	15.0
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		98	55	130	90
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		1	1	1.1	0.79
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		28	16	25	24
Lead	mg/kg	400	---	700	---	---	*	36	36	107		30	24	25	20
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		0.041	0.033	0.055	< 0.016
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		< 1.2	< 1.2	1.4	< 0.96
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 1.2	< 1.2	< 1.2	< 0.96
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.3	< 2.4	< 2.5	< 1.9
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		1.4	0.63	1.1	0.7
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		5200	83000	6500	60000
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		22	12	16	11
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		49	27	40	28
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.30	< 0.30	< 0.32	< 0.26
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		41000	30000	38000	25000
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		7300	46000	6500	34000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		860	750	570	430
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		54	31	43	32
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		2000	1400	1500	1400
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		2900	1800	2000	1200
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.2	< 1.2	< 1.2	< 0.96
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		33	23	34	23
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		100	76	88	56
pH									6.25	9		8	8.1	7.6	8
Inorganic Analytical Parameters (SPLP)															
Iron,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	38
Lead,SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---		--	--	0.029	--
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.46	0.47	0.5	0.25
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050
Inorganic Analytical Parameters (TCLP)															
Arsenic,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010
Barium,TCLP	mg/L	---	---	---	---	2	---	---	---	---		0.38	0.29	0.61	0.4
Cadmium,TCLP	mg/L	---	---	---	---	0.005	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010
Lead,TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---		< 0.0050	< 0.0050	0.014	< 0.0050
Mercury,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010
Silver,TCLP	mg/L	---	---	---	---	0.05	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010
Antimony,TCLP	mg/L	---	---	---	---	0.006	---	---	---	---		< 0.015	< 0.015	< 0.015	< 0.015
Beryllium,TCLP	mg/L	---	---	---	---	0.004	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050
Calcium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		390	440	160	910
Cobalt,TCLP	mg/L	---	---	---	---	1	---	---	---	---		< 0.010	< 0.010	0.032	0.04
Copper,TCLP	mg/L	---	---	---	---	0.65	---	---	---	---		< 0.10	< 0.10	< 0.10	< 0.10
Cyanide,TCLP	mg/L	---	---	---	---	0.2	---	---	---	---		----	----	----	----
Iron,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.25	< 0.25	< 0.25	8
Magnesium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		150	100	71	340
Manganese,TCLP	mg/L	---	---	---	---	0.15	---	---	---	---		1.9	2.2	13	8.1
Nickel,TCLP	mg/L	---	---	---	---	0.1	---	---	---	---		< 0.020	< 0.020	0.025	0.038
Potassium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		1.4	0.98	1.1	0.98
Sodium,TCLP	mg/L	---	---	---	---	---	---	---	---	---		----	----	----	----
Thallium,TCLP	mg/L	---	---	---	---	0.002	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050
Vanadium,TCLP	mg/L	---	---	---	---	0.049	---	---	---	---		< 0.010	< 0.010	< 0.010	< 0.010
Zinc,TCLP	mg/L	---	---	---	---	5	---	---	---	---		< 0.050	< 0.050	< 0.050	< 0.050

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 10, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080847 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 16 samples for the referenced project on 8/21/2015 7:48:00 PM. The analytical results are presented in the following report.


This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL
Work Order: 15080847 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080847-001A	2697-7-B09 (0-5)		8/21/2015 11:00:00 AM	8/21/2015
15080847-001B	2697-7-B09 (0-5)		8/21/2015 11:00:00 AM	8/21/2015
15080847-002A	2697-7-B09 (5-10)		8/21/2015 11:10:00 AM	8/21/2015
15080847-002B	2697-7-B09 (5-10)		8/21/2015 11:10:00 AM	8/21/2015
15080847-003A	2697-7-B09 (10-15)		8/21/2015 11:15:00 AM	8/21/2015
15080847-003B	2697-7-B09 (10-15)		8/21/2015 11:15:00 AM	8/21/2015
15080847-004A	2697-7-B09 Dup (10-15)		8/21/2015 11:15:00 AM	8/21/2015
15080847-004B	2697-7-B09 Dup (10-15)		8/21/2015 11:15:00 AM	8/21/2015
15080847-005A	2697-7-B09 (15-20)		8/21/2015 11:20:00 AM	8/21/2015
15080847-005B	2697-7-B09 (15-20)		8/21/2015 11:20:00 AM	8/21/2015
15080847-006A	2697-7-B10 (0-2.5)		8/21/2015 1:00:00 PM	8/21/2015
15080847-006B	2697-7-B10 (0-2.5)		8/21/2015 1:00:00 PM	8/21/2015
15080847-007A	2697-7-B11 (0-2.5)		8/21/2015 1:10:00 PM	8/21/2015
15080847-007B	2697-7-B11 (0-2.5)		8/21/2015 1:10:00 PM	8/21/2015
15080847-008A	2697-7-B12 (0-3)		8/21/2015 1:15:00 PM	8/21/2015
15080847-008B	2697-7-B12 (0-3)		8/21/2015 1:15:00 PM	8/21/2015
15080847-009A	2697-7-B13 (0-6)		8/21/2015 1:27:00 PM	8/21/2015
15080847-009B	2697-7-B13 (0-6)		8/21/2015 1:27:00 PM	8/21/2015
15080847-010A	2697-7-B14 (0-6.5)		8/21/2015 1:45:00 PM	8/21/2015
15080847-010B	2697-7-B14 (0-6.5)		8/21/2015 1:45:00 PM	8/21/2015
15080847-011A	2697-7-B15 (0-6.5)		8/21/2015 2:05:00 PM	8/21/2015
15080847-011B	2697-7-B15 (0-6.5)		8/21/2015 2:05:00 PM	8/21/2015
15080847-012A	2697-7-B15 Dup (0-6.5)		8/21/2015 2:05:00 PM	8/21/2015
15080847-012B	2697-7-B15 Dup (0-6.5)		8/21/2015 2:05:00 PM	8/21/2015
15080847-013A	2697-7-B16 (0-1)		8/21/2015 2:50:00 PM	8/21/2015
15080847-013B	2697-7-B16 (0-1)		8/21/2015 2:50:00 PM	8/21/2015
15080847-014A	2697-7-B17 (0-1)		8/21/2015 2:53:00 PM	8/21/2015
15080847-014B	2697-7-B17 (0-1)		8/21/2015 2:53:00 PM	8/21/2015
15080847-015A	2697-7-B18 (0-2)		8/21/2015 2:55:00 PM	8/21/2015
15080847-015B	2697-7-B18 (0-2)		8/21/2015 2:55:00 PM	8/21/2015
15080847-016A	2697-7-B19 (0-2)		8/21/2015 3:00:00 PM	8/21/2015
15080847-016B	2697-7-B19 (0-2)		8/21/2015 3:00:00 PM	8/21/2015

CLIENT: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL
Work Order: 15080847 Revision 1

CASE NARRATIVE

The total metals Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample 2697-7-B13 (0-6) (15080847-009) had Antimony recovery outside control limits (28%/31% (MS/MSD) recovery, QC limits 75-125%). The MS/MSD had recovery of other analytes outside of control limits, however the analyte concentration in the sample was greater than four times the spiking level for those elements.

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (0-5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.071		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0048		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0095		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.071		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0095		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0048		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0095		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0095		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.035		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.035		mg/Kg-dry	1	8/27/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (0-5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.35		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.035		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.035		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.35		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.87		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.87		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.35		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.035		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.18		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.35		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.87		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.035		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (0-5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.035		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.035		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.18		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.035		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.35		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.035		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.035		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.18		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.070		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.035		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.035		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.70		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.0		mg/Kg-dry	10	8/24/2015
Arsenic	2.3	1.0		mg/Kg-dry	10	8/24/2015
Barium	520	1.0		mg/Kg-dry	10	8/24/2015
Beryllium	ND	0.50		mg/Kg-dry	10	8/24/2015
Cadmium	0.87	0.50		mg/Kg-dry	10	8/24/2015
Calcium	170000	6000		mg/Kg-dry	1000	8/25/2015
Chromium	11	1.0		mg/Kg-dry	10	8/24/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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 E - Value above quantitation range
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (0-5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	3.2	1.0		mg/Kg-dry	10	8/24/2015
Copper	10	2.5		mg/Kg-dry	10	8/24/2015
Iron	11000	30		mg/Kg-dry	10	8/24/2015
Lead	40	0.50		mg/Kg-dry	10	8/24/2015
Magnesium	98000	30		mg/Kg-dry	10	8/24/2015
Manganese	250	1.0		mg/Kg-dry	10	8/24/2015
Nickel	11	1.0		mg/Kg-dry	10	8/24/2015
Potassium	990	30		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.0		mg/Kg-dry	10	8/24/2015
Silver	ND	1.0		mg/Kg-dry	10	8/24/2015
Sodium	1700	60		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/24/2015
Vanadium	14	1.0		mg/Kg-dry	10	8/24/2015
Zinc	150	5.0		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.042	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.14	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	290	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.020	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	0.0074	0.0050		mg/L	5	8/26/2015
Magnesium	150	0.25		mg/L	5	8/26/2015
Manganese	0.98	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.6	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	0.85	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (0-5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.019		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: MD 8/26/2015
Cyanide, Total Cyanide	SW9012A ND	0.27		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.2			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 6.9	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (5-10)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:10:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.083		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0055		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0055		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0055		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.083		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.055		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0055		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0055		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0055		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0055		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0055		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0055		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0055		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0055		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0055		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.022		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0055		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0055		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0055		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0055		mg/Kg-dry	1	8/28/2015
Toluene	0.0061	0.0055		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0055		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0055		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0055		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0055		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.017		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/27/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (5-10)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:10:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.40		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.39		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.99		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (5-10)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:10:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
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Fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	8/27/2015
Phenanthrene	0.081	0.039		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.80		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/24/2015	Analyst: JG
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Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	14	1.1		mg/Kg-dry	10	8/24/2015
Barium	39	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	ND	0.55		mg/Kg-dry	10	8/24/2015
Cadmium	0.99	0.55		mg/Kg-dry	10	8/24/2015
Calcium	62000	66		mg/Kg-dry	10	8/24/2015
Chromium	12	1.1		mg/Kg-dry	10	8/24/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (5-10)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:10:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	8.4	1.1		mg/Kg-dry	10	8/24/2015
Copper	22	2.7		mg/Kg-dry	10	8/24/2015
Iron	25000	33		mg/Kg-dry	10	8/24/2015
Lead	15	0.55		mg/Kg-dry	10	8/24/2015
Magnesium	37000	33		mg/Kg-dry	10	8/24/2015
Manganese	540	1.1		mg/Kg-dry	10	8/24/2015
Nickel	23	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1100	33		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	2700	66		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	17	1.1		mg/Kg-dry	10	8/24/2015
Zinc	74	5.5		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.052	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.31	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	290	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.029	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	1.6	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	91	0.25		mg/L	5	8/26/2015
Manganese	6.7	0.010		mg/L	5	8/26/2015
Nickel	0.065	0.020		mg/L	5	8/26/2015
Potassium	1.4	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	0.066	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (5-10)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:10:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.022		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: MD 8/26/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 7.8			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 16.6	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.070		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0047		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0093		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.070		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.047		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0093		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0047		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0093		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0093		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Toluene	0.0050	0.0047		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/27/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.39		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
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Fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/24/2015	Analyst: JG
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Antimony	ND	2.3		mg/Kg-dry	10	8/24/2015
Arsenic	14	1.2		mg/Kg-dry	10	8/24/2015
Barium	51	1.2		mg/Kg-dry	10	8/24/2015
Beryllium	0.65	0.58		mg/Kg-dry	10	8/24/2015
Cadmium	1.0	0.58		mg/Kg-dry	10	8/24/2015
Calcium	64000	69		mg/Kg-dry	10	8/24/2015
Chromium	20	1.2		mg/Kg-dry	10	8/24/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	14	1.2		mg/Kg-dry	10	8/24/2015
Copper	25	2.9		mg/Kg-dry	10	8/24/2015
Iron	28000	35		mg/Kg-dry	10	8/24/2015
Lead	19	0.58		mg/Kg-dry	10	8/24/2015
Magnesium	30000	35		mg/Kg-dry	10	8/24/2015
Manganese	500	1.2		mg/Kg-dry	10	8/24/2015
Nickel	34	1.2		mg/Kg-dry	10	8/24/2015
Potassium	2000	35		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.2		mg/Kg-dry	10	8/24/2015
Silver	ND	1.2		mg/Kg-dry	10	8/24/2015
Sodium	970	69		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/24/2015
Vanadium	25	1.2		mg/Kg-dry	10	8/24/2015
Zinc	66	5.8		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.21	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.23	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	1100	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.049	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	0.87	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	300	0.25		mg/L	5	8/26/2015
Manganese	7.0	0.010		mg/L	5	8/26/2015
Nickel	0.037	0.020		mg/L	5	8/26/2015
Potassium	1.0	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Client Sample ID: 2697-7-B09 (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.022		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.1			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 16.9	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

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Client Sample ID: 2697-7-B09 Dup (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.065		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0043		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0086		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.065		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.043		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0043		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0086		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0043		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0086		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0043		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0086		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0043		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0043		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Work Order: 15080847 Revision 1

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Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.39		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.97		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 Dup (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
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Fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/24/2015	Analyst: JG
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Antimony	ND	2.3		mg/Kg-dry	10	8/24/2015
Arsenic	12	1.1		mg/Kg-dry	10	8/24/2015
Barium	53	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.72	0.57		mg/Kg-dry	10	8/24/2015
Cadmium	1.0	0.57		mg/Kg-dry	10	8/24/2015
Calcium	68000	69		mg/Kg-dry	10	8/24/2015
Chromium	20	1.1		mg/Kg-dry	10	8/24/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 Dup (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	13	1.1		mg/Kg-dry	10	8/24/2015
Copper	24	2.9		mg/Kg-dry	10	8/24/2015
Iron	28000	34		mg/Kg-dry	10	8/24/2015
Lead	17	0.57		mg/Kg-dry	10	8/24/2015
Magnesium	31000	34		mg/Kg-dry	10	8/24/2015
Manganese	450	1.1		mg/Kg-dry	10	8/24/2015
Nickel	35	1.1		mg/Kg-dry	10	8/24/2015
Potassium	2200	34		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	1000	69		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	25	1.1		mg/Kg-dry	10	8/24/2015
Zinc	66	5.7		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	1.5	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.27	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	610	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	43	0.25		mg/L	5	8/26/2015
Manganese	2.5	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	2.0	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

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Qualifiers:

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HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

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Client Sample ID: 2697-7-B09 Dup (10-15)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:15:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.019	0.019		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.1			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 15.9	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (15-20)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.062		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0042		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0083		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.062		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.042		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0042		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0083		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0042		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0083		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0042		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0083		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0042		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0042		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.012		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/27/2015

Qualifiers:

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (15-20)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.38		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.37		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

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Client Sample ID: 2697-7-B09 (15-20)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.037		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.075		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.75		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	8.9	1.1		mg/Kg-dry	10	8/24/2015
Barium	34	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.59	0.54		mg/Kg-dry	10	8/24/2015
Cadmium	0.95	0.54		mg/Kg-dry	10	8/24/2015
Calcium	73000	65		mg/Kg-dry	10	8/24/2015
Chromium	16	1.1		mg/Kg-dry	10	8/24/2015

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (15-20)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	10	1.1		mg/Kg-dry	10	8/24/2015
Copper	20	2.7		mg/Kg-dry	10	8/24/2015
Iron	23000	32		mg/Kg-dry	10	8/24/2015
Lead	14	0.54		mg/Kg-dry	10	8/24/2015
Magnesium	35000	32		mg/Kg-dry	10	8/24/2015
Manganese	490	1.1		mg/Kg-dry	10	8/24/2015
Nickel	29	1.1		mg/Kg-dry	10	8/24/2015
Potassium	2100	32		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	290	65		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	20	1.1		mg/Kg-dry	10	8/24/2015
Zinc	55	5.4		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.011	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.99	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	660	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.015	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	43	0.25		mg/L	5	8/26/2015
Manganese	2.9	0.010		mg/L	5	8/26/2015
Nickel	0.020	0.020		mg/L	5	8/26/2015
Potassium	4.4	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

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RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B09 (15-20)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 11:20:00 AM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.023		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	1	Prep Date: 8/26/2015 Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.8			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 12.9	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B10 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.068		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0045		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0091		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.068		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.045		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0045		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0091		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0045		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0091		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0045		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0091		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0045		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0045		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/27/2015

Qualifiers:

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B10 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.39		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B10 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	13	1.1		mg/Kg-dry	10	8/24/2015
Barium	58	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.61	0.55		mg/Kg-dry	10	8/24/2015
Cadmium	0.97	0.55		mg/Kg-dry	10	8/24/2015
Calcium	69000	66		mg/Kg-dry	10	8/24/2015
Chromium	13	1.1		mg/Kg-dry	10	8/24/2015

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B10 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Metals by ICP/MS**SW6020 (SW3050B)**

Prep Date: 8/24/2015

Analyst: JG

Cobalt	9.6	1.1		mg/Kg-dry	10	8/24/2015
Copper	23	2.8		mg/Kg-dry	10	8/24/2015
Iron	25000	33		mg/Kg-dry	10	8/24/2015
Lead	28	0.55		mg/Kg-dry	10	8/24/2015
Magnesium	39000	33		mg/Kg-dry	10	8/24/2015
Manganese	670	1.1		mg/Kg-dry	10	8/24/2015
Nickel	25	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1200	33		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	1200	66		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	20	1.1		mg/Kg-dry	10	8/24/2015
Zinc	74	5.5		mg/Kg-dry	10	8/24/2015

TCLP Metals by ICP/MS**SW1311/6020 (SW3005A)**

Prep Date: 8/25/2015

Analyst: JG

Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.29	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	390	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	110	0.25		mg/L	5	8/26/2015
Manganese	0.027	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.1	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

TCLP Mercury**SW1311/7470A**

Prep Date: 8/25/2015

Analyst: LB

Mercury	ND	0.00020		mg/L	1	8/25/2015
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Qualifiers:

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B10 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury Mercury	SW7471A 0.031	0.020		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.4			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 15.9	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B11 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.070		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0047		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0094		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.070		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.047		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0094		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0047		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0094		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0094		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0047		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/27/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B11 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.39		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B11 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.039		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	16	1.1		mg/Kg-dry	10	8/24/2015
Barium	100	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.92	0.56		mg/Kg-dry	10	8/24/2015
Cadmium	1.1	0.56		mg/Kg-dry	10	8/24/2015
Calcium	25000	67		mg/Kg-dry	10	8/24/2015
Chromium	24	1.1		mg/Kg-dry	10	8/24/2015

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B11 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	17	1.1		mg/Kg-dry	10	8/24/2015
Copper	33	2.8		mg/Kg-dry	10	8/24/2015
Iron	39000	34		mg/Kg-dry	10	8/24/2015
Lead	37	0.56		mg/Kg-dry	10	8/24/2015
Magnesium	18000	34		mg/Kg-dry	10	8/24/2015
Manganese	700	1.1		mg/Kg-dry	10	8/24/2015
Nickel	42	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1800	34		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	1400	67		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	29	1.1		mg/Kg-dry	10	8/24/2015
Zinc	92	5.6		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 9/8/2015		Analyst: JG
Lead	0.013	0.0020		mg/L	2	9/8/2015
Manganese	0.12	0.0040		mg/L	2	9/8/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.56	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	230	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.045	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	2.1	0.25		mg/L	5	8/26/2015
Lead	0.011	0.0050		mg/L	5	8/26/2015
Magnesium	92	0.25		mg/L	5	8/26/2015
Manganese	20	0.010		mg/L	5	8/26/2015
Nickel	0.036	0.020		mg/L	5	8/26/2015
Potassium	2.5	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

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Client Sample ID: 2697-7-B11 (0-2.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Zinc	0.60	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury	SW7471A			Prep Date: 8/24/2015		Analyst: LB
Mercury	0.033	0.023		mg/Kg-dry	1	8/24/2015
Cyanide, Leached	SW1312/9012A			Prep Date: 8/26/2015		Analyst: YZ
Cyanide	ND	0.0050		mg/L	1	8/27/2015
Cyanide, Total	SW9012A			Prep Date: 8/25/2015		Analyst: YZ
Cyanide	ND	0.30		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C			Prep Date: 8/24/2015		Analyst: GH
pH	7.6			pH Units	1	8/24/2015
Percent Moisture	D2974			Prep Date: 8/21/2015		Analyst: RW
Percent Moisture	15.9	0.2	*	wt%	1	8/24/2015

Qualifiers:

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J - Analyte detected below quantitation limits

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HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B12 (0-3)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:15:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.057		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0038		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0076		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.057		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.038		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0038		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0076		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0038		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0076		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0038		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0015		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0015		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0038		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.015		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.015		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0076		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0038		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0038		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.011		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/27/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B12 (0-3)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:15:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.38		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.95		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/27/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B12 (0-3)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:15:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
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Fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.76		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/24/2015	Analyst: JG
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Antimony	ND	2.3		mg/Kg-dry	10	8/24/2015
Arsenic	16	1.1		mg/Kg-dry	10	8/24/2015
Barium	62	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.63	0.57		mg/Kg-dry	10	8/24/2015
Cadmium	1.0	0.57		mg/Kg-dry	10	8/24/2015
Calcium	51000	68		mg/Kg-dry	10	8/24/2015
Chromium	18	1.1		mg/Kg-dry	10	8/24/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B12 (0-3)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:15:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	11	1.1		mg/Kg-dry	10	8/24/2015
Copper	26	2.8		mg/Kg-dry	10	8/24/2015
Iron	28000	34		mg/Kg-dry	10	8/24/2015
Lead	22	0.57		mg/Kg-dry	10	8/24/2015
Magnesium	29000	34		mg/Kg-dry	10	8/24/2015
Manganese	600	1.1		mg/Kg-dry	10	8/24/2015
Nickel	32	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1300	34		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	610	68		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	24	1.1		mg/Kg-dry	10	8/24/2015
Zinc	74	5.7		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.068	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.36	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	1000	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.060	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	360	0.25		mg/L	5	8/26/2015
Manganese	10	0.010		mg/L	5	8/26/2015
Nickel	0.081	0.020		mg/L	5	8/26/2015
Potassium	1.2	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B12 (0-3)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:15:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.026	0.022		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 7.9			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 12.4	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B13 (0-6)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:27:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.064		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0043		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0085		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.064		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.043		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0043		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0085		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0043		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0085		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0043		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0085		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0043		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0043		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0043		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0043		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/27/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

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E - Value above quantitation range

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B13 (0-6)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:27:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)			Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/27/2015

Qualifiers:
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B13 (0-6)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:27:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.038		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.078		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.78		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	12	1.1		mg/Kg-dry	10	8/24/2015
Barium	50	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.69	0.55		mg/Kg-dry	10	8/24/2015
Cadmium	ND	0.55		mg/Kg-dry	10	8/24/2015
Calcium	68000	66		mg/Kg-dry	10	8/24/2015
Chromium	13	1.1		mg/Kg-dry	10	8/24/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B13 (0-6)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:27:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	10	1.1		mg/Kg-dry	10	8/24/2015
Copper	19	2.7		mg/Kg-dry	10	8/24/2015
Iron	23000	33		mg/Kg-dry	10	8/24/2015
Lead	18	0.55		mg/Kg-dry	10	8/24/2015
Magnesium	33000	33		mg/Kg-dry	10	8/24/2015
Manganese	450	1.1		mg/Kg-dry	10	8/24/2015
Nickel	22	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1500	33		mg/Kg-dry	10	8/24/2015
Selenium	1.8	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	380	66		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	18	1.1		mg/Kg-dry	10	8/24/2015
Zinc	67	5.5		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.028	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.35	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.010		mg/L	5	8/26/2015
Calcium	1100	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.071	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	0.72	0.25		mg/L	5	8/26/2015
Lead	0.0063	0.0050		mg/L	5	8/26/2015
Magnesium	300	0.25		mg/L	5	8/26/2015
Manganese	9.5	0.010		mg/L	5	8/26/2015
Nickel	0.055	0.020		mg/L	5	8/26/2015
Potassium	1.2	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B13 (0-6)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:27:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.020		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 7.7			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 13.9	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

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 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B14 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.062		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0041		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0041		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0041		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0083		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.062		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.041		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0041		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0041		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0083		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0041		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0083		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0041		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0041		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0041		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0041		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0041		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0041		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0041		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0041		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0083		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0041		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0041		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0041		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0041		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0041		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0041		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0041		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0041		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0041		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.012		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.036		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.036		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B14 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.37		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benzo(a)anthracene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benztidine	ND	0.36		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.91		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.91		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.36		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.036		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.36		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.91		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.036		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
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STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B14 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.036		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.036		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.036		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.36		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.036		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.036		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.074		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.036		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.036		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.74		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	12	1.1		mg/Kg-dry	10	8/24/2015
Barium	26	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	ND	0.56		mg/Kg-dry	10	8/24/2015
Cadmium	1.0	0.56		mg/Kg-dry	10	8/24/2015
Calcium	74000	67		mg/Kg-dry	10	8/24/2015
Chromium	11	1.1		mg/Kg-dry	10	8/24/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B14 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	8.9	1.1		mg/Kg-dry	10	8/24/2015
Copper	21	2.8		mg/Kg-dry	10	8/24/2015
Iron	21000	33		mg/Kg-dry	10	8/24/2015
Lead	14	0.56		mg/Kg-dry	10	8/24/2015
Magnesium	38000	33		mg/Kg-dry	10	8/24/2015
Manganese	500	1.1		mg/Kg-dry	10	8/24/2015
Nickel	26	1.1		mg/Kg-dry	10	8/24/2015
Potassium	1300	33		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	450	67		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	16	1.1		mg/Kg-dry	10	8/24/2015
Zinc	67	5.6		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.063	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.20	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	580	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	46	0.25		mg/L	5	8/26/2015
Manganese	1.9	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.6	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B14 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 1:45:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.020		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.2			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 10.2	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

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RL - Reporting / Quantitation Limit for the analysis

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B15 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.060		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0040		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0040		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0040		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0080		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.060		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.040		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0040		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0040		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0080		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0040		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0080		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0040		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0040		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0040		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0040		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0040		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0040		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0040		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0016		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0016		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0040		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.016		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.016		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0080		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0040		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0040		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0040		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0040		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0040		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0040		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0040		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0040		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0040		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.012		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B15 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.37		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(a)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benztidine	ND	0.37		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.93		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.93		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.93		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B15 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.075		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.75		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS						
SW6020 (SW3050B)				Prep Date: 8/24/2015	Analyst: JG	
Antimony	ND	2.1		mg/Kg-dry	10	8/24/2015
Arsenic	11	1.0		mg/Kg-dry	10	8/24/2015
Barium	48	1.0		mg/Kg-dry	10	8/24/2015
Beryllium	0.57	0.51		mg/Kg-dry	10	8/24/2015
Cadmium	0.97	0.51		mg/Kg-dry	10	8/24/2015
Calcium	80000	62		mg/Kg-dry	10	8/24/2015
Chromium	17	1.0		mg/Kg-dry	10	8/24/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B15 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	10	1.0		mg/Kg-dry	10	8/24/2015
Copper	20	2.6		mg/Kg-dry	10	8/24/2015
Iron	24000	31		mg/Kg-dry	10	8/24/2015
Lead	15	0.51		mg/Kg-dry	10	8/24/2015
Magnesium	41000	31		mg/Kg-dry	10	8/24/2015
Manganese	450	1.0		mg/Kg-dry	10	8/24/2015
Nickel	26	1.0		mg/Kg-dry	10	8/24/2015
Potassium	1600	31		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.0		mg/Kg-dry	10	8/24/2015
Silver	ND	1.0		mg/Kg-dry	10	8/24/2015
Sodium	340	62		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/24/2015
Vanadium	21	1.0		mg/Kg-dry	10	8/24/2015
Zinc	65	5.1		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.016	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.29	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	630	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	55	0.25		mg/L	5	8/26/2015
Manganese	0.89	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.8	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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Date Reported: September 10, 2015

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B15 (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.020	0.019		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 7.9			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 10.4	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

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Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART	
Acetone	ND	0.063		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0042		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0084		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.063		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.042		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0042		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0084		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0042		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0084		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0042		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0084		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0042		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0042		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0042		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM	
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/28/2015

Qualifiers:

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B15 Dup (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.38		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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Client: Terracon Consultants, Inc.

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Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.2		mg/Kg-dry	10	8/24/2015
Arsenic	9.7	1.1		mg/Kg-dry	10	8/24/2015
Barium	46	1.1		mg/Kg-dry	10	8/24/2015
Beryllium	0.66	0.56		mg/Kg-dry	10	8/24/2015
Cadmium	1.0	0.56		mg/Kg-dry	10	8/24/2015
Calcium	65000	67		mg/Kg-dry	10	8/24/2015
Chromium	19	1.1		mg/Kg-dry	10	8/24/2015

Qualifiers: ND - Not Detected at the Reporting Limit
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Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	10	1.1		mg/Kg-dry	10	8/24/2015
Copper	22	2.8		mg/Kg-dry	10	8/24/2015
Iron	25000	34		mg/Kg-dry	10	8/24/2015
Lead	15	0.56		mg/Kg-dry	10	8/24/2015
Magnesium	32000	34		mg/Kg-dry	10	8/24/2015
Manganese	460	1.1		mg/Kg-dry	10	8/24/2015
Nickel	29	1.1		mg/Kg-dry	10	8/24/2015
Potassium	2000	34		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.1		mg/Kg-dry	10	8/24/2015
Silver	ND	1.1		mg/Kg-dry	10	8/24/2015
Sodium	300	67		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/24/2015
Vanadium	23	1.1		mg/Kg-dry	10	8/24/2015
Zinc	68	5.6		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.021	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.24	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	1000	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.042	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	370	0.25		mg/L	5	8/26/2015
Manganese	4.8	0.010		mg/L	5	8/26/2015
Nickel	0.051	0.020		mg/L	5	8/26/2015
Potassium	1.1	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B15 Dup (0-6.5)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:05:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-012

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.022	0.018		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/27/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.0			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 14.5	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B16 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:50:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.066		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0088		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.066		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.044		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0088		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0088		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0088		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B16 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:50:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.40		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(a)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benztidine	ND	0.39		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.99		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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 HT - Sample received past holding time
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B16 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:50:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.80		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	2.3		mg/Kg-dry	10	8/24/2015
Arsenic	20	1.2		mg/Kg-dry	10	8/24/2015
Barium	98	1.2		mg/Kg-dry	10	8/24/2015
Beryllium	1.4	0.58		mg/Kg-dry	10	8/24/2015
Cadmium	1.0	0.58		mg/Kg-dry	10	8/24/2015
Calcium	5200	69		mg/Kg-dry	10	8/24/2015
Chromium	28	1.2		mg/Kg-dry	10	8/24/2015

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B16 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:50:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	22	1.2		mg/Kg-dry	10	8/24/2015
Copper	49	2.9		mg/Kg-dry	10	8/24/2015
Iron	41000	35		mg/Kg-dry	10	8/24/2015
Lead	30	0.58		mg/Kg-dry	10	8/24/2015
Magnesium	7300	35		mg/Kg-dry	10	8/24/2015
Manganese	860	1.2		mg/Kg-dry	10	8/24/2015
Nickel	54	1.2		mg/Kg-dry	10	8/24/2015
Potassium	2000	35		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.2		mg/Kg-dry	10	8/24/2015
Silver	ND	1.2		mg/Kg-dry	10	8/24/2015
Sodium	2900	69		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/24/2015
Vanadium	33	1.2		mg/Kg-dry	10	8/24/2015
Zinc	100	5.8		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.46	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.38	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	390	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	150	0.25		mg/L	5	8/26/2015
Manganese	1.9	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.4	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B16 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:50:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-013

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.041	0.023		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/27/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.0			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 16.6	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B17 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:53:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.057		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0038		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0076		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.057		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.038		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0038		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0076		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0038		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0076		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0038		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0015		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0015		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0038		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.015		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.015		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0076		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0038		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0038		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0038		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0038		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.011		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B17 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:53:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.40		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(a)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benztidine	ND	0.39		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.99		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B17 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:53:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.80		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 8/24/2015	Analyst: JG
Antimony	ND	2.4		mg/Kg-dry	10	8/24/2015
Arsenic	16	1.2		mg/Kg-dry	10	8/24/2015
Barium	55	1.2		mg/Kg-dry	10	8/24/2015
Beryllium	0.63	0.59		mg/Kg-dry	10	8/24/2015
Cadmium	1.0	0.59		mg/Kg-dry	10	8/24/2015
Calcium	83000	71		mg/Kg-dry	10	8/24/2015
Chromium	16	1.2		mg/Kg-dry	10	8/24/2015

Qualifiers:

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B17 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:53:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	12	1.2		mg/Kg-dry	10	8/24/2015
Copper	27	2.9		mg/Kg-dry	10	8/24/2015
Iron	30000	35		mg/Kg-dry	10	8/24/2015
Lead	24	0.59		mg/Kg-dry	10	8/24/2015
Magnesium	46000	35		mg/Kg-dry	10	8/24/2015
Manganese	750	1.2		mg/Kg-dry	10	8/24/2015
Nickel	31	1.2		mg/Kg-dry	10	8/24/2015
Potassium	1400	35		mg/Kg-dry	10	8/24/2015
Selenium	ND	1.2		mg/Kg-dry	10	8/24/2015
Silver	ND	1.2		mg/Kg-dry	10	8/24/2015
Sodium	1800	71		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/24/2015
Vanadium	23	1.2		mg/Kg-dry	10	8/24/2015
Zinc	76	5.9		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Manganese	0.47	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.29	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	440	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	100	0.25		mg/L	5	8/26/2015
Manganese	2.2	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	0.98	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

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Qualifiers:

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B17 (0-1)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:53:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-014

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.033	0.023		mg/Kg-dry	1	Prep Date: 8/24/2015 Analyst: LB 8/24/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/27/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: YZ 8/25/2015
pH (25 °C) pH	SW9045C 8.1			pH Units	1	Prep Date: 8/24/2015 Analyst: GH 8/24/2015
Percent Moisture Percent Moisture	D2974 16.1	0.2	*	wt%	1	Prep Date: 8/21/2015 Analyst: RW 8/24/2015

Qualifiers:

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B18 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:55:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-015

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.073		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0048		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0097		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.073		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.048		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0097		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0048		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0097		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0097		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0048		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.042		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.042		mg/Kg-dry	1	8/27/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B18 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:55:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-015

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.42		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.042		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.042		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.42		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.042		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.042		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.042		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.042		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.21		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.042		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.042		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.42		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/27/2015

Qualifiers:
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B18 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:55:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-015

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Fluoranthene	ND	0.042		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.042		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.042		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.21		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.042		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.42		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.042		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.042		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.084		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.042		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.21		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.042		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.84		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/27/2015
Metals by ICP/MS						
	SW6020 (SW3050B)				Prep Date: 8/24/2015	Analyst: JG
Antimony	ND	2.5		mg/Kg-dry	10	8/24/2015
Arsenic	18	1.2		mg/Kg-dry	10	8/24/2015
Barium	130	1.2		mg/Kg-dry	10	8/24/2015
Beryllium	1.1	0.62		mg/Kg-dry	10	8/24/2015
Cadmium	1.1	0.62		mg/Kg-dry	10	8/24/2015
Calcium	6500	75		mg/Kg-dry	10	8/24/2015
Chromium	25	1.2		mg/Kg-dry	10	8/24/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B18 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:55:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-015

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	16	1.2		mg/Kg-dry	10	8/24/2015
Copper	40	3.1		mg/Kg-dry	10	8/24/2015
Iron	38000	37		mg/Kg-dry	10	8/24/2015
Lead	25	0.62		mg/Kg-dry	10	8/24/2015
Magnesium	6500	37		mg/Kg-dry	10	8/24/2015
Manganese	570	1.2		mg/Kg-dry	10	8/24/2015
Nickel	43	1.2		mg/Kg-dry	10	8/24/2015
Potassium	1500	37		mg/Kg-dry	10	8/24/2015
Selenium	1.4	1.2		mg/Kg-dry	10	8/24/2015
Silver	ND	1.2		mg/Kg-dry	10	8/24/2015
Sodium	2000	75		mg/Kg-dry	10	8/24/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/24/2015
Vanadium	34	1.2		mg/Kg-dry	10	8/24/2015
Zinc	88	6.2		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Lead	0.029	0.0020		mg/L	2	9/3/2015
Manganese	0.50	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.61	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	160	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.032	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	0.014	0.0050		mg/L	5	8/26/2015
Magnesium	71	0.25		mg/L	5	8/26/2015
Manganese	13	0.010		mg/L	5	8/26/2015
Nickel	0.025	0.020		mg/L	5	8/26/2015
Potassium	1.1	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015

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RL - Reporting / Quantitation Limit for the analysis

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B18 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 2:55:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-015

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury	SW7471A			Prep Date: 8/24/2015		Analyst: LB
Mercury	0.055	0.024		mg/Kg-dry	1	8/24/2015
Cyanide, Leached	SW1312/9012A			Prep Date: 8/27/2015		Analyst: YZ
Cyanide	ND	0.0050		mg/L	1	8/27/2015
Cyanide, Total	SW9012A			Prep Date: 8/25/2015		Analyst: YZ
Cyanide	ND	0.32		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C			Prep Date: 8/24/2015		Analyst: GH
pH	7.6			pH Units	1	8/24/2015
Percent Moisture	D2974			Prep Date: 8/21/2015		Analyst: RW
Percent Moisture	21.0	0.2	*	wt%	1	8/24/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B19 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 3:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/24/2015		Analyst: ART
Acetone	ND	0.066		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0044		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.066		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.044		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0044		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0089		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0044		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/28/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/25/2015		Analyst: DM
Acenaphthene	ND	0.034		mg/Kg-dry	1	8/27/2015
Acenaphthylene	ND	0.034		mg/Kg-dry	1	8/27/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B19 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 3:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/25/2015	Analyst: DM
Aniline	ND	0.35		mg/Kg-dry	1	8/27/2015
Anthracene	ND	0.034		mg/Kg-dry	1	8/27/2015
Benz(a)anthracene	ND	0.034		mg/Kg-dry	1	8/27/2015
Benzidine	ND	0.34		mg/Kg-dry	1	8/27/2015
Benzo(a)pyrene	ND	0.034		mg/Kg-dry	1	8/27/2015
Benzo(b)fluoranthene	ND	0.034		mg/Kg-dry	1	8/27/2015
Benzo(g,h,i)perylene	ND	0.034		mg/Kg-dry	1	8/27/2015
Benzo(k)fluoranthene	ND	0.034		mg/Kg-dry	1	8/27/2015
Benzoic acid	ND	0.86		mg/Kg-dry	1	8/27/2015
Benzyl alcohol	ND	0.18		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethoxy)methane	ND	0.18		mg/Kg-dry	1	8/27/2015
Bis(2-chloroethyl)ether	ND	0.18		mg/Kg-dry	1	8/27/2015
Bis(2-ethylhexyl)phthalate	ND	0.86		mg/Kg-dry	1	8/27/2015
4-Bromophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/27/2015
Butyl benzyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
Carbazole	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Chloroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Chloro-3-methylphenol	ND	0.34		mg/Kg-dry	1	8/27/2015
2-Chloronaphthalene	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Chlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Chlorophenyl phenyl ether	ND	0.18		mg/Kg-dry	1	8/27/2015
Chrysene	ND	0.034		mg/Kg-dry	1	8/27/2015
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	8/27/2015
Dibenzofuran	ND	0.18		mg/Kg-dry	1	8/27/2015
1,2-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
1,3-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
1,4-Dichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
3,3'-Dichlorobenzidine	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4-Dichlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Diethyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4-Dimethylphenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Dimethyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
4,6-Dinitro-2-methylphenol	ND	0.34		mg/Kg-dry	1	8/27/2015
2,4-Dinitrophenol	ND	0.86		mg/Kg-dry	1	8/27/2015
2,4-Dinitrotoluene	ND	0.034		mg/Kg-dry	1	8/27/2015
2,6-Dinitrotoluene	ND	0.034		mg/Kg-dry	1	8/27/2015
Di-n-butyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015
Di-n-octyl phthalate	ND	0.18		mg/Kg-dry	1	8/27/2015

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

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Client Sample ID: 2697-7-B19 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 3:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 8/25/2015 Analyst: DM

Fluoranthene	ND	0.034		mg/Kg-dry	1	8/27/2015
Fluorene	ND	0.034		mg/Kg-dry	1	8/27/2015
Hexachlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
Hexachlorobutadiene	ND	0.18		mg/Kg-dry	1	8/27/2015
Hexachlorocyclopentadiene	ND	0.18		mg/Kg-dry	1	8/27/2015
Hexachloroethane	ND	0.18		mg/Kg-dry	1	8/27/2015
Indeno(1,2,3-cd)pyrene	ND	0.034		mg/Kg-dry	1	8/27/2015
Isophorone	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Methylnaphthalene	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Methylphenol	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Methylphenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Naphthalene	ND	0.034		mg/Kg-dry	1	8/27/2015
2-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
3-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Nitroaniline	ND	0.18		mg/Kg-dry	1	8/27/2015
2-Nitrophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
4-Nitrophenol	ND	0.34		mg/Kg-dry	1	8/27/2015
Nitrobenzene	ND	0.034		mg/Kg-dry	1	8/27/2015
N-Nitrosodi-n-propylamine	ND	0.034		mg/Kg-dry	1	8/27/2015
N-Nitrosodimethylamine	ND	0.18		mg/Kg-dry	1	8/27/2015
N-Nitrosodiphenylamine	ND	0.18		mg/Kg-dry	1	8/27/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.18		mg/Kg-dry	1	8/27/2015
Pentachlorophenol	ND	0.070		mg/Kg-dry	1	8/27/2015
Phenanthrene	ND	0.034		mg/Kg-dry	1	8/27/2015
Phenol	ND	0.18		mg/Kg-dry	1	8/27/2015
Pyrene	ND	0.034		mg/Kg-dry	1	8/27/2015
Pyridine	ND	0.70		mg/Kg-dry	1	8/27/2015
1,2,4-Trichlorobenzene	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4,5-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015
2,4,6-Trichlorophenol	ND	0.18		mg/Kg-dry	1	8/27/2015

Metals by ICP/MS SW6020 (SW3050B) Prep Date: 8/24/2015 Analyst: JG

Antimony	ND	1.9		mg/Kg-dry	10	8/24/2015
Arsenic	15	0.96		mg/Kg-dry	10	8/24/2015
Barium	90	0.96		mg/Kg-dry	10	8/24/2015
Beryllium	0.70	0.48		mg/Kg-dry	10	8/24/2015
Cadmium	0.79	0.48		mg/Kg-dry	10	8/24/2015
Calcium	60000	58		mg/Kg-dry	10	8/24/2015
Chromium	24	0.96		mg/Kg-dry	10	8/24/2015

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B19 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 3:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/24/2015		Analyst: JG
Cobalt	11	0.96		mg/Kg-dry	10	8/24/2015
Copper	28	2.4		mg/Kg-dry	10	8/24/2015
Iron	25000	29		mg/Kg-dry	10	8/24/2015
Lead	20	0.48		mg/Kg-dry	10	8/24/2015
Magnesium	34000	29		mg/Kg-dry	10	8/24/2015
Manganese	430	0.96		mg/Kg-dry	10	8/24/2015
Nickel	32	0.96		mg/Kg-dry	10	8/24/2015
Potassium	1400	29		mg/Kg-dry	10	8/24/2015
Selenium	ND	0.96		mg/Kg-dry	10	8/24/2015
Silver	ND	0.96		mg/Kg-dry	10	8/24/2015
Sodium	1200	58		mg/Kg-dry	10	8/24/2015
Thallium	ND	0.96		mg/Kg-dry	10	8/24/2015
Vanadium	23	0.96		mg/Kg-dry	10	8/24/2015
Zinc	56	4.8		mg/Kg-dry	10	8/24/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/24/2015		Analyst: JG
Iron	38	0.50		mg/L	10	9/9/2015
Manganese	0.25	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.40	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	910	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.040	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	8.0	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	340	0.25		mg/L	5	8/26/2015
Manganese	8.1	0.010		mg/L	5	8/26/2015
Nickel	0.038	0.020		mg/L	5	8/26/2015
Potassium	0.98	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 10, 2015

ANALYTICAL RESULTS

Date Printed: September 10, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B19 (0-2)

Work Order: 15080847 Revision 1

Collection Date: 8/21/2015 3:00:00 PM

Project: 11157109, IDOT FAU 297, New Lenox /Joliet, IL

Matrix: Soil

Lab ID: 15080847-016

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury	SW7471A			Prep Date: 8/24/2015		Analyst: LB
Mercury	ND	0.016		mg/Kg-dry	1	8/24/2015
Cyanide, Leached	SW1312/9012A			Prep Date: 8/27/2015		Analyst: YZ
Cyanide	ND	0.0050		mg/L	1	8/27/2015
Cyanide, Total	SW9012A			Prep Date: 8/25/2015		Analyst: YZ
Cyanide	ND	0.26		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C			Prep Date: 8/24/2015		Analyst: GH
pH	8.0			pH Units	1	8/24/2015
Percent Moisture	D2974			Prep Date: 8/21/2015		Analyst: RW
Percent Moisture	4.4	0.2	*	wt%	1	8/24/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

Sample Receipt Checklist

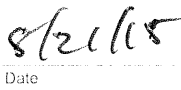
Client Name TERRACON-NAPERVILLE

Date and Time Received: 8/21/2015 9:48:00 AM

Work Order Number 15080847

Received by: DO

Checklist completed by: 
Signature


Date

Reviewed by:  
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 2.8 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by:
- Water - Samples properly preserved? Yes No pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Frank Capoccia

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Monday, August 31, 2015 5:41 PM
To: Frank Capoccia
Subject: RE: 11157109, IDOT FAU 297, New Lenox /Joliet, IL STAT 15080847

Hi Frank,

Regarding below-referenced job, please run the following additional analysis on Standard Turnaround:

<u>Sample</u>	<u>SPLP Analysis Requested</u>
2697-7-B09 (0-5)	Manganese
2697-7-B09 (5-10)	Manganese
2697-7-B09 (10-15)	Manganese
2697-7-B09 Dup (10-15)	Manganese
2697-7-B09 (15-20)	Manganese
2697-7-B11 (0-2.5)	Manganese, Lead
2697-7-B12 (0-3)	Manganese
2697-7-B13 (0-6)	Manganese
2697-7-B14 (0-6.5)	Manganese
2697-7-B15 (0-6.5)	Manganese
2697-7-B15 Dup (0-6.5)	Manganese
2697-7-B16 (0-1)	Manganese
2697-7-B17 (0-1)	Manganese
2697-7-B18 (0-2)	Manganese, Lead
2697-7-B19 (0-2)	Manganese, Iron

Please confirm receipt.

Thanks,

Richard O'Brien, P.E.
 Senior Project Engineer
 Environmental Services

Terracon Consultants, Inc.

650 West Lake Street, Suite 420 | Chicago, IL 60661
 P (312) 575-0014 | F (312) 575-0111 | C (312) 443-2958
rmobrien@terracon.com | terracon.com



From: Frank Capoccia [mailto:FCapoccia@STATAnalysis.com]
Sent: Friday, August 28, 2015 6:41 PM
To: O'Brien, Richard M
Subject: 11157109, IDOT FAU 297, New Lenox /Joliet, IL STAT 15080847

8/31/2015

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 03, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080903 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 9 samples for the referenced project on 8/24/2015 6:50:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Michelle Budniak
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080903 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080903-001A	2697-7-B01 (0-1)		8/24/2015 10:30:00 AM	8/24/2015
15080903-001B	2697-7-B01 (0-1)		8/24/2015 10:30:00 AM	8/24/2015
15080903-002A	2697-7-B02 (0-2)		8/24/2015 10:39:00 AM	8/24/2015
15080903-002B	2697-7-B02 (0-2)		8/24/2015 10:39:00 AM	8/24/2015
15080903-003A	2697-7-B02 DUP (0-2)		8/24/2015 10:39:00 AM	8/24/2015
15080903-003B	2697-7-B02 DUP (0-2)		8/24/2015 10:39:00 AM	8/24/2015
15080903-004A	2697-7-B03 (0-2)		8/24/2015 10:45:00 AM	8/24/2015
15080903-004B	2697-7-B03 (0-2)		8/24/2015 10:45:00 AM	8/24/2015
15080903-005A	2697-7-B04 (0-2.5)		8/24/2015 10:54:00 AM	8/24/2015
15080903-005B	2697-7-B04 (0-2.5)		8/24/2015 10:54:00 AM	8/24/2015
15080903-006A	2697-7-B05 (0-2.5)		8/24/2015 11:00:00 AM	8/24/2015
15080903-006B	2697-7-B05 (0-2.5)		8/24/2015 11:00:00 AM	8/24/2015
15080903-007A	2697-7-B06 (0-2.5)		8/24/2015 11:05:00 AM	8/24/2015
15080903-007B	2697-7-B06 (0-2.5)		8/24/2015 11:05:00 AM	8/24/2015
15080903-008A	2697-7-B07 (0-2.5)		8/24/2015 12:08:00 PM	8/24/2015
15080903-008B	2697-7-B07 (0-2.5)		8/24/2015 12:08:00 PM	8/24/2015
15080903-009A	2697-7-B08 (0-2.5)		8/24/2015 12:16:00 PM	8/24/2015
15080903-009B	2697-7-B08 (0-2.5)		8/24/2015 12:16:00 PM	8/24/2015

CLIENT: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080903 Revision 1

CASE NARRATIVE

The VOC soil Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyzed 08/29/2015 had recovery of Chloromethane outside of control limits (68% (LCS) recovery, QC limits 70-130%).

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B01 (0-1)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:30:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS
Acetone	ND	0.082		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0054		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.082		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.054		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0054		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.022		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B01 (0-1)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:30:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.97		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B01 (0-1)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:30:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	2.3		mg/Kg-dry	10	8/25/2015
Arsenic	14	1.2		mg/Kg-dry	10	8/25/2015
Barium	130	1.2		mg/Kg-dry	10	8/25/2015
Beryllium	1.1	0.58		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.58		mg/Kg-dry	10	8/25/2015
Calcium	2200	70		mg/Kg-dry	10	8/25/2015
Chromium	24	1.2		mg/Kg-dry	10	8/25/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B01 (0-1)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:30:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	18	1.2		mg/Kg-dry	10	8/25/2015
Copper	42	2.9		mg/Kg-dry	10	8/25/2015
Iron	31000	35		mg/Kg-dry	10	8/25/2015
Lead	25	0.58		mg/Kg-dry	10	8/25/2015
Magnesium	4900	35		mg/Kg-dry	10	8/25/2015
Manganese	530	1.2		mg/Kg-dry	10	8/25/2015
Nickel	39	1.2		mg/Kg-dry	10	8/25/2015
Potassium	1800	35		mg/Kg-dry	10	8/25/2015
Selenium	3.1	1.2		mg/Kg-dry	10	8/25/2015
Silver	ND	1.2		mg/Kg-dry	10	8/25/2015
Sodium	1300	70		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/25/2015
Vanadium	30	1.2		mg/Kg-dry	10	8/25/2015
Zinc	73	5.8		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.12	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.24	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	43	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	0.45	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	18	0.25		mg/L	5	8/26/2015
Manganese	0.29	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.5	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B01 (0-1)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:30:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.047	0.022		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/27/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.8			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 15.4	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: GH 8/25/2015

Qualifiers:

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HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

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E - Value above quantitation range

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS
Acetone	ND	0.067		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.0089		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.067		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.044		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.0089		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.0089		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.0089		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Toluene	0.0045	0.0044		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.4		mg/Kg-dry	10	8/25/2015
Arsenic	13	1.2		mg/Kg-dry	10	8/25/2015
Barium	140	1.2		mg/Kg-dry	10	8/25/2015
Beryllium	1.0	0.59		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.59		mg/Kg-dry	10	8/25/2015
Calcium	3600	71		mg/Kg-dry	10	8/25/2015
Chromium	23	1.2		mg/Kg-dry	10	8/25/2015

Qualifiers: ND - Not Detected at the Reporting Limit
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	15	1.2		mg/Kg-dry	10	8/25/2015
Copper	37	2.9		mg/Kg-dry	10	8/25/2015
Iron	29000	35		mg/Kg-dry	10	8/25/2015
Lead	24	0.59		mg/Kg-dry	10	8/25/2015
Magnesium	5700	35		mg/Kg-dry	10	8/25/2015
Manganese	570	1.2		mg/Kg-dry	10	8/25/2015
Nickel	56	1.2		mg/Kg-dry	10	8/25/2015
Potassium	1600	35		mg/Kg-dry	10	8/25/2015
Selenium	2.3	1.2		mg/Kg-dry	10	8/25/2015
Silver	ND	1.2		mg/Kg-dry	10	8/25/2015
Sodium	780	71		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/25/2015
Vanadium	28	1.2		mg/Kg-dry	10	8/25/2015
Zinc	78	5.9		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.082	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.49	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	470	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	110	0.25		mg/L	5	8/26/2015
Manganese	0.31	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	0.89	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.040	0.021		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/27/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.9			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 15.7	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: GH 8/25/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 DUP (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS
Acetone	ND	0.066		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.0088		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.066		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.044		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.0088		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.0088		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.0088		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Toluene	0.0049	0.0044		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/28/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 DUP (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.37		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.93		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.93		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.93		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 DUP (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.075		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.75		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.1		mg/Kg-dry	10	8/25/2015
Arsenic	11	1.1		mg/Kg-dry	10	8/25/2015
Barium	120	1.1		mg/Kg-dry	10	8/25/2015
Beryllium	0.81	0.53		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.53		mg/Kg-dry	10	8/25/2015
Calcium	20000	64		mg/Kg-dry	10	8/25/2015
Chromium	19	1.1		mg/Kg-dry	10	8/25/2015

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Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	13	1.1		mg/Kg-dry	10	8/25/2015
Copper	32	2.7		mg/Kg-dry	10	8/25/2015
Iron	25000	32		mg/Kg-dry	10	8/25/2015
Lead	33	0.53		mg/Kg-dry	10	8/25/2015
Magnesium	11000	32		mg/Kg-dry	10	8/25/2015
Manganese	860	1.1		mg/Kg-dry	10	8/25/2015
Nickel	27	1.1		mg/Kg-dry	10	8/25/2015
Potassium	1300	32		mg/Kg-dry	10	8/25/2015
Selenium	2.5	1.1		mg/Kg-dry	10	8/25/2015
Silver	ND	1.1		mg/Kg-dry	10	8/25/2015
Sodium	710	64		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/25/2015
Vanadium	27	1.1		mg/Kg-dry	10	8/25/2015
Zinc	65	5.3		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.086	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.44	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	610	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	43	0.25		mg/L	5	8/26/2015
Manganese	0.42	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	0.98	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B02 DUP (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:39:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.024	0.022		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/27/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 8.1			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 12.8	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: GH 8/25/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B03 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS
Acetone	ND	0.074		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0050		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.0099		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.074		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.050		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.0099		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0050		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.0099		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.0099		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0050		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B03 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzenzidine	ND	0.38		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B03 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/28/2015

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.2		mg/Kg-dry	10	8/25/2015
Arsenic	14	1.1		mg/Kg-dry	10	8/25/2015
Barium	93	1.1		mg/Kg-dry	10	8/25/2015
Beryllium	1.0	0.54		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.54		mg/Kg-dry	10	8/25/2015
Calcium	2200	65		mg/Kg-dry	10	8/25/2015
Chromium	24	1.1		mg/Kg-dry	10	8/25/2015

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B03 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	21	1.1		mg/Kg-dry	10	8/25/2015
Copper	41	2.7		mg/Kg-dry	10	8/25/2015
Iron	32000	33		mg/Kg-dry	10	8/25/2015
Lead	27	0.54		mg/Kg-dry	10	8/25/2015
Magnesium	4900	33		mg/Kg-dry	10	8/25/2015
Manganese	750	1.1		mg/Kg-dry	10	8/25/2015
Nickel	44	1.1		mg/Kg-dry	10	8/25/2015
Potassium	1600	33		mg/Kg-dry	10	8/25/2015
Selenium	3.0	1.1		mg/Kg-dry	10	8/25/2015
Silver	ND	1.1		mg/Kg-dry	10	8/25/2015
Sodium	990	65		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/25/2015
Vanadium	29	1.1		mg/Kg-dry	10	8/25/2015
Zinc	82	5.4		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.14	0.0080		mg/L	4	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.018		mg/L	5	8/26/2015
Arsenic	ND	0.012		mg/L	5	8/26/2015
Barium	0.20	0.060		mg/L	5	8/26/2015
Beryllium	ND	0.0060		mg/L	5	8/26/2015
Cadmium	ND	0.0060		mg/L	5	8/26/2015
Calcium	44	0.60		mg/L	5	8/26/2015
Chromium	ND	0.012		mg/L	5	8/26/2015
Cobalt	ND	0.012		mg/L	5	8/26/2015
Copper	ND	0.12		mg/L	5	8/26/2015
Iron	ND	0.30		mg/L	5	8/26/2015
Lead	ND	0.0060		mg/L	5	8/26/2015
Magnesium	17	0.30		mg/L	5	8/26/2015
Manganese	0.23	0.012		mg/L	5	8/26/2015
Nickel	ND	0.024		mg/L	5	8/26/2015
Potassium	1.2	0.30		mg/L	5	8/26/2015
Selenium	ND	0.012		mg/L	5	8/26/2015
Silver	ND	0.012		mg/L	5	8/26/2015
Thallium	ND	0.0060		mg/L	5	8/26/2015
Vanadium	ND	0.012		mg/L	5	8/26/2015
Zinc	ND	0.060		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B03 (0-2)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.044	0.019		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/27/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.6			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 14.8	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: GH 8/25/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B04 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:54:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS	
Acetone	ND	0.076		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0051		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0051		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0051		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.010		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.076		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.051		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0051		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0051		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.010		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0051		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.010		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0051		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0051		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0051		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0051		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0051		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.020		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.010		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0051		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0051		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0051		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0051		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0051		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0051		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0051		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0051		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.015		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Acenaphthene	ND	0.040		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.040		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B04 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:54:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.41		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.040		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	8/28/2015
Benztidine	ND	0.40		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.040		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B04 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:54:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.040		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.040		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.040		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.040		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.082		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.040		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.040		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.82		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.3		mg/Kg-dry	10	8/25/2015
Arsenic	14	1.1		mg/Kg-dry	10	8/25/2015
Barium	140	1.1		mg/Kg-dry	10	8/25/2015
Beryllium	1.1	0.57		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.57		mg/Kg-dry	10	8/25/2015
Calcium	3100	68		mg/Kg-dry	10	8/25/2015
Chromium	29	1.1		mg/Kg-dry	10	8/25/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B04 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:54:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG
Cobalt	22	1.1		mg/Kg-dry	10	8/25/2015
Copper	35	2.8		mg/Kg-dry	10	8/25/2015
Iron	34000	34		mg/Kg-dry	10	8/25/2015
Lead	24	0.57		mg/Kg-dry	10	8/25/2015
Magnesium	6300	34		mg/Kg-dry	10	8/25/2015
Manganese	1000	1.1		mg/Kg-dry	10	8/25/2015
Nickel	52	1.1		mg/Kg-dry	10	8/25/2015
Potassium	2400	34		mg/Kg-dry	10	8/25/2015
Selenium	3.1	1.1		mg/Kg-dry	10	8/25/2015
Silver	ND	1.1		mg/Kg-dry	10	8/25/2015
Sodium	1200	68		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/25/2015
Vanadium	34	1.1		mg/Kg-dry	10	8/25/2015
Zinc	84	5.7		mg/Kg-dry	10	8/25/2015
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.21	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	46	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	15	0.25		mg/L	5	8/26/2015
Manganese	0.088	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.2	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury		SW1311/7470A		Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015

Qualifiers:
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 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B04 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 10:54:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury Mercury	SW7471A 0.041	0.023		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/27/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.31		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.7			pH Units	1	Prep Date: 8/25/2015 Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 18.7	0.2	*	wt%	1	Prep Date: 8/24/2015 Analyst: GH 8/25/2015

Qualifiers:
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 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B05 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS
Acetone	0.099	0.080		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0054		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.011		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.080		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.054		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.011		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0054		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.011		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0021		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.021		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.011		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0054		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.016		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.041		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.041		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B05 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.41		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.041		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	8/28/2015
Benzenzidine	ND	0.41		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	1.0		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.041		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.21		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B05 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.041		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.041		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.21		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.041		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.041		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.083		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.041		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.041		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.83		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.3		mg/Kg-dry	10	8/25/2015
Arsenic	15	1.2		mg/Kg-dry	10	8/25/2015
Barium	130	1.2		mg/Kg-dry	10	8/25/2015
Beryllium	1.0	0.59		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.59		mg/Kg-dry	10	8/25/2015
Calcium	2900	70		mg/Kg-dry	10	8/25/2015
Chromium	18	1.2		mg/Kg-dry	10	8/25/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B05 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Cobalt	14	1.2		mg/Kg-dry	10	8/25/2015
Copper	25	2.9		mg/Kg-dry	10	8/25/2015
Iron	29000	35		mg/Kg-dry	10	8/25/2015
Lead	22	0.59		mg/Kg-dry	10	8/25/2015
Magnesium	3800	35		mg/Kg-dry	10	8/25/2015
Manganese	980	1.2		mg/Kg-dry	10	8/25/2015
Nickel	36	1.2		mg/Kg-dry	10	8/25/2015
Potassium	1000	35		mg/Kg-dry	10	8/25/2015
Selenium	3.7	1.2		mg/Kg-dry	10	8/25/2015
Silver	ND	1.2		mg/Kg-dry	10	8/25/2015
Sodium	660	70		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/25/2015
Vanadium	30	1.2		mg/Kg-dry	10	8/25/2015
Zinc	65	5.9		mg/Kg-dry	10	8/25/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.27	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	60	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	1.5	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	25	0.25		mg/L	5	8/26/2015
Manganese	0.046	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.7	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A		Prep Date: 8/25/2015		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	8/25/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B05 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury Mercury	SW7471A 0.048	0.025		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/27/2015 Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.31		mg/Kg-dry	1	Prep Date: 8/25/2015 Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.3			pH Units	1	Prep Date: 8/25/2015 Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 20.0	0.2	*	wt%	1	Prep Date: 8/24/2015 Analyst: GH 8/25/2015

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B06 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS	
Acetone	ND	0.070		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0047		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0047		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.0094		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.070		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.047		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.0094		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0047		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.0094		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.0094		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0047		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0047		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0047		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B06 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B06 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.76		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.2		mg/Kg-dry	10	8/25/2015
Arsenic	13	1.1		mg/Kg-dry	10	8/25/2015
Barium	30	1.1		mg/Kg-dry	10	8/25/2015
Beryllium	0.59	0.55		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.55		mg/Kg-dry	10	8/25/2015
Calcium	76000	65		mg/Kg-dry	10	8/25/2015
Chromium	13	1.1		mg/Kg-dry	10	8/25/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B06 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	9.1	1.1		mg/Kg-dry	10	8/25/2015
Copper	21	2.7		mg/Kg-dry	10	8/25/2015
Iron	23000	33		mg/Kg-dry	10	8/25/2015
Lead	13	0.55		mg/Kg-dry	10	8/25/2015
Magnesium	35000	33		mg/Kg-dry	10	8/25/2015
Manganese	520	1.1		mg/Kg-dry	10	8/25/2015
Nickel	23	1.1		mg/Kg-dry	10	8/25/2015
Potassium	1300	33		mg/Kg-dry	10	8/25/2015
Selenium	1.8	1.1		mg/Kg-dry	10	8/25/2015
Silver	ND	1.1		mg/Kg-dry	10	8/25/2015
Sodium	270	65		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/25/2015
Vanadium	16	1.1		mg/Kg-dry	10	8/25/2015
Zinc	74	5.5		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.028	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.21	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	610	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	33	0.25		mg/L	5	8/26/2015
Manganese	0.99	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.6	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B06 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 11:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.021		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/27/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.8			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 12.0	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: GH 8/25/2015

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B07 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:08:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS
Acetone	ND	0.066		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0044		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.0088		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.066		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.044		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.0088		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0044		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.0088		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.0088		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Toluene	0.0045	0.0044		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0044		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B07 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:08:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B07 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:08:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.76		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.1		mg/Kg-dry	10	8/25/2015
Arsenic	10	1.0		mg/Kg-dry	10	8/25/2015
Barium	35	1.0		mg/Kg-dry	10	8/25/2015
Beryllium	0.60	0.52		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.52		mg/Kg-dry	10	8/25/2015
Calcium	76000	62		mg/Kg-dry	10	8/25/2015
Chromium	13	1.0		mg/Kg-dry	10	8/25/2015

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 HT - Sample received past holding time
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Date Reported: September 03, 2015

ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B07 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:08:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	9.6	1.0		mg/Kg-dry	10	8/25/2015
Copper	20	2.6		mg/Kg-dry	10	8/25/2015
Iron	22000	31		mg/Kg-dry	10	8/25/2015
Lead	13	0.52		mg/Kg-dry	10	8/25/2015
Magnesium	32000	31		mg/Kg-dry	10	8/25/2015
Manganese	490	1.0		mg/Kg-dry	10	8/25/2015
Nickel	23	1.0		mg/Kg-dry	10	8/25/2015
Potassium	1200	31		mg/Kg-dry	10	8/25/2015
Selenium	1.7	1.0		mg/Kg-dry	10	8/25/2015
Silver	ND	1.0		mg/Kg-dry	10	8/25/2015
Sodium	220	62		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/25/2015
Vanadium	17	1.0		mg/Kg-dry	10	8/25/2015
Zinc	61	5.2		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.015	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.25	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	650	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	ND	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	29	0.25		mg/L	5	8/26/2015
Manganese	0.55	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	1.4	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B07 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:08:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A ND	0.022		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/27/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 8.0			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 11.8	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: GH 8/25/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B08 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:16:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/25/2015		Analyst: PS
Acetone	ND	0.060		mg/Kg-dry	1	8/29/2015
Benzene	ND	0.0040		mg/Kg-dry	1	8/29/2015
Bromodichloromethane	ND	0.0040		mg/Kg-dry	1	8/29/2015
Bromoform	ND	0.0040		mg/Kg-dry	1	8/29/2015
Bromomethane	ND	0.0080		mg/Kg-dry	1	8/29/2015
2-Butanone	ND	0.060		mg/Kg-dry	1	8/29/2015
Carbon disulfide	ND	0.040		mg/Kg-dry	1	8/29/2015
Carbon tetrachloride	ND	0.0040		mg/Kg-dry	1	8/29/2015
Chlorobenzene	ND	0.0040		mg/Kg-dry	1	8/29/2015
Chloroethane	ND	0.0080		mg/Kg-dry	1	8/29/2015
Chloroform	ND	0.0040		mg/Kg-dry	1	8/29/2015
Chloromethane	ND	0.0080		mg/Kg-dry	1	8/29/2015
Dibromochloromethane	ND	0.0040		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethane	ND	0.0040		mg/Kg-dry	1	8/29/2015
1,2-Dichloroethane	ND	0.0040		mg/Kg-dry	1	8/29/2015
1,1-Dichloroethene	ND	0.0040		mg/Kg-dry	1	8/29/2015
cis-1,2-Dichloroethene	ND	0.0040		mg/Kg-dry	1	8/29/2015
trans-1,2-Dichloroethene	ND	0.0040		mg/Kg-dry	1	8/29/2015
1,2-Dichloropropane	ND	0.0040		mg/Kg-dry	1	8/29/2015
cis-1,3-Dichloropropene	ND	0.0016		mg/Kg-dry	1	8/29/2015
trans-1,3-Dichloropropene	ND	0.0016		mg/Kg-dry	1	8/29/2015
Ethylbenzene	ND	0.0040		mg/Kg-dry	1	8/29/2015
2-Hexanone	ND	0.016		mg/Kg-dry	1	8/29/2015
4-Methyl-2-pentanone	ND	0.016		mg/Kg-dry	1	8/29/2015
Methylene chloride	ND	0.0080		mg/Kg-dry	1	8/29/2015
Methyl tert-butyl ether	ND	0.0040		mg/Kg-dry	1	8/29/2015
Styrene	ND	0.0040		mg/Kg-dry	1	8/29/2015
1,1,2,2-Tetrachloroethane	ND	0.0040		mg/Kg-dry	1	8/29/2015
Tetrachloroethene	ND	0.0040		mg/Kg-dry	1	8/29/2015
Toluene	ND	0.0040		mg/Kg-dry	1	8/29/2015
1,1,1-Trichloroethane	ND	0.0040		mg/Kg-dry	1	8/29/2015
1,1,2-Trichloroethane	ND	0.0040		mg/Kg-dry	1	8/29/2015
Trichloroethene	ND	0.0040		mg/Kg-dry	1	8/29/2015
Vinyl chloride	ND	0.0040		mg/Kg-dry	1	8/29/2015
Xylenes, Total	ND	0.012		mg/Kg-dry	1	8/29/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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 R - RPD outside accepted recovery limits
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 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B08 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:16:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.37		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.92		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.92		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.92		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B08 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:16:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.074		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.74		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.1		mg/Kg-dry	10	8/25/2015
Arsenic	14	1.0		mg/Kg-dry	10	8/25/2015
Barium	44	1.0		mg/Kg-dry	10	8/25/2015
Beryllium	0.62	0.52		mg/Kg-dry	10	8/25/2015
Cadmium	ND	0.52		mg/Kg-dry	10	8/25/2015
Calcium	72000	62		mg/Kg-dry	10	8/25/2015
Chromium	14	1.0		mg/Kg-dry	10	8/25/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B08 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:16:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	9.8	1.0		mg/Kg-dry	10	8/25/2015
Copper	22	2.6		mg/Kg-dry	10	8/25/2015
Iron	22000	31		mg/Kg-dry	10	8/25/2015
Lead	15	0.52		mg/Kg-dry	10	8/25/2015
Magnesium	34000	31		mg/Kg-dry	10	8/25/2015
Manganese	510	1.0		mg/Kg-dry	10	8/25/2015
Nickel	24	1.0		mg/Kg-dry	10	8/25/2015
Potassium	1200	31		mg/Kg-dry	10	8/25/2015
Selenium	1.5	1.0		mg/Kg-dry	10	8/25/2015
Silver	ND	1.0		mg/Kg-dry	10	8/25/2015
Sodium	920	62		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.0		mg/Kg-dry	10	8/25/2015
Vanadium	18	1.0		mg/Kg-dry	10	8/25/2015
Zinc	67	5.2		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Manganese	0.13	0.0040		mg/L	2	9/3/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.30	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	610	0.50		mg/L	5	8/26/2015
Chromium	0.011	0.010		mg/L	5	8/26/2015
Cobalt	ND	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	4.5	0.25		mg/L	5	8/26/2015
Lead	ND	0.0050		mg/L	5	8/26/2015
Magnesium	24	0.25		mg/L	5	8/26/2015
Manganese	0.62	0.010		mg/L	5	8/26/2015
Nickel	ND	0.020		mg/L	5	8/26/2015
Potassium	2.0	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015
Zinc	ND	0.050		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 03, 2015

ANALYTICAL RESULTS

Date Printed: September 03, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-7-B08 (0-2.5)

Work Order: 15080903 Revision 1

Collection Date: 8/24/2015 12:16:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080903-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Mercury Mercury	SW7471A 0.024	0.021		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: LB 8/25/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/27/2015 1	Analyst: YZ 8/27/2015
Cyanide, Total Cyanide	SW9012A ND	0.28		mg/Kg-dry	Prep Date: 8/25/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 8.3			pH Units	Prep Date: 8/25/2015 1	Analyst: GH 8/25/2015
Percent Moisture Percent Moisture	D2974 10.5	0.2	*	wt%	Prep Date: 8/24/2015 1	Analyst: GH 8/25/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

Sample Receipt Checklist

Client Name TERRACON-NAPERVILLE

Date and Time Received: 8/24/2015 6:50:00 PM

Work Order Number 15080903

Received by: DO

Checklist completed by:  : 8/24/15
Signature Date

Reviewed by: 
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 2.7 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by:
- Water - Samples properly preserved? Yes No pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080903

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Tuesday, September 01, 2015 9:25 AM
To: Craig Chawla
Cc: Frank Capoccia
Subject: RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080903

Hi Craig,

Regarding the below-referenced project, please conduct additional analysis for **SPLP Manganese** for the following samples on Standard turnaround:

2697-7-B01 (0-1)
2697-7-B02 (0-2)
2697-7-B02 DUP (0-2)
2697-7-B03 (0-2)
2697-7-B06 (0-2.5)
2697-7-B07 (0-2.5)
2697-7-B08 (0-2.5)

Please confirm receipt.

Thanks,

Richard O'Brien, P.E.
Senior Project Engineer
Environmental Services

Terracon Consultants, Inc.

650 West Lake Street, Suite 420 | Chicago, IL 60661
P (312) 575-0014 | F (312) 575-0111 | C (312) 443-2958

rmobrien@terracon.com | terracon.com



From: Craig Chawla [mailto:cchawla@statanalysis.com]
Sent: Monday, August 31, 2015 5:49 PM
To: O'Brien, Richard M
Subject: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080903

Richard,

Attached is the report for project 11157109, IDOT FAU 297, New Lenox / Joliet, IL received 8/24/2015.

Let me know if additional analysis is needed for this project.

Craig Chawla
STAT Analysis Corporation
(312)733-0551

The information contained in this e-mail message and any attachments is confidential information intended only for the use of the individual or entities named above. If the reader of this
9/3/2015



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

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

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

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

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

You must have Adobe Acrobat Reader 8.0 or above installed to use the features on this form.

I. Source Location Information

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

Project Name: FAU 297 – US Route 6 at Gougar Road Office Phone Number, if available: _____

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

US Route 6 (Southwest Highway) at Gougar Road IDOT STA 101+85 to 207+80 (ISGS Site 2697-8)

City: Joliet/New Lenox State: IL Zip Code: 60432

County: Will Township: New Lenox

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

Latitude: 41.54767 Longitude: -88.00556
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAU 297 – US Route 6 at Gougar Road

Latitude: 41.54767 Longitude: -88.00556

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 and B06 were sampled adjacent to ISGS Site No 2697-8. See Exhibits 2, 3, and 3C and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated November 13, 2015.

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

STAT Analysis Corporation Report No 15080904-1 and 15080945-1. Also see Preliminary Site Investigation Report prepared by Terracon dated September 16 , 2015. CCDD/USFO facility in MSA County . Only boring listed above are certified.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 650 West Lake Street, Suite 420

City: Chicago State: IL Zip Code: 60661

Phone: (312) 443-2958

Richard O'Brien, P.E.

Printed Name:

Richard O'Brien

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

November 13, 2015

Date:



P.E. or L.P.G. Seal:

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-8)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 1 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-8-B01	2697-8-B02	2697-8-B03	2697-8-B03	2697-8-B03
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL					CCDD	Sample Depth (feet)	(0-3)	(0-1)	(0-5)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected			08/24/2015	08/26/2015	08/25/2015
Inorganic Analytical Parameters																
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		10.0	16.0	12.0	13.0	8.5
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		58	81	65	41	56
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		< 0.54	1	< 0.59	< 0.57	< 0.59
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		13	19	15	12	19
Lead	mg/kg	400	---	700	---	---	*	36	36	107		23	55	19	16	14
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		0.028	0.041	0.028	< 0.023	< 0.023
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		1.8	< 1.2	2.1	2	2.4
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 1.1	< 1.2	< 1.2	< 1.1	< 1.2
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.2	< 2.3	< 2.4	< 2.3	< 2.4
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		0.72	1.1	0.9	0.85	0.93
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		49000	49000	27000	58000	54000
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		9.5	11	11	10	11
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		28	32	22	23	22
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.28	< 0.30	< 0.30	< 0.29	< 0.30
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		20000	25000	23000	23000	24000
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		28000	28000	14000	34000	23000
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		470	510	620	570	420
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		21	28	22	24	31
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		1100	1700	1000	1000	1900
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		1700	3000	1400	1100	990
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.1	1.3	< 1.2	< 1.1	< 1.2
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		19	28	20	17	23
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		67	100	64	81	59
pH									6.25	9		8.1	8.6	7.9	7.3	7.9
Inorganic Analytical Parameters (SPLP)																
Antimony,SPLP	mg/L	---	---	---	---	0.006	---	---	---	---		--	--	--	--	--
Arsenic,SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		--	--	--	--	--
Barium,SPLP	mg/L	---	---	---	---	2	---	---	---	---		--	--	--	--	--
Beryllium,SPLP	mg/L	---	---	---	---	0.004	---	---	---	---		--	--	--	--	--
Cadmium,SPLP	mg/L	---	---	---	---	0.005	---	---	---	---		--	--	--	--	--
Calcium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	--	--
Chromium,SPLP	mg/L	---	---	---	---	0.1	---	---	---	---		--	--	--	--	--
Cobalt,SPLP	mg/L	---	---	---	---	1	---	---	---	---		--	--	--	--	--
Copper,SPLP	mg/L	---	---	---	---	0.65	---	---	---	---		--	--	--	--	--
Iron,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	--	--
Lead,SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---		0.021	--	--	--	--
Magnesium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		0.18	0.87	0.34	0.082	0.3
Mercury,SPLP	mg/L	---	---	---	---	0.002	---	---	---	---		--	--	--	--	--
Nickel,SPLP	mg/L	---	---	---	---	0.1	---	---	---	---		--	--	--	--	--
Potassium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	--	--
Selenium,SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		--	--	--	--	--
Silver,SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		--	--	--	--	--
Sodium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	--	--
Thallium,SPLP	mg/L	---	---	---	---	0.002	---	---	---	---		--	--	--	--	--
Vanadium,SPLP	mg/L	---	---	---	---	0.049	---	---	---	---		--	--	--	--	--
Zinc,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	--	--
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-8)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 2 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-8-B01 (0-3)	2697-8-B02 (0-1)	2697-8-B03 (0-5)	2697-8-B03 (5-10)	2697-8-B03 (10-15)
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL			CCDD	Sample Depth (feet)	(0-3)	(0-1)	(0-5)	(5-10)	(10-15)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I				mg/kg	Date Collected	08/24/2015	08/26/2015	08/25/2015	08/25/2015	08/25/2015
								Chicago	MSAs	pH 6.25-9.0						
Inorganic Analytical Parameters (TCLP)																
Arsenic, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Barium, TCLP	mg/L	---	---	---	---	2	---	---	---	---	0.57	0.29	0.32	0.46	0.3	
Cadmium, TCLP	mg/L	---	---	---	---	0.005	---	---	---	---	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Chromium, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Lead, TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---	0.016	< 0.0050	< 0.0050	< 0.0050	0.0057	
Mercury, TCLP	mg/L	---	---	---	---	0.002	---	---	---	---	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	
Selenium, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Silver, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Antimony, TCLP	mg/L	---	---	---	---	0.006	---	---	---	---	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
Beryllium, TCLP	mg/L	---	---	---	---	0.004	---	---	---	---	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Calcium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	250	460	550	440	1400	
Cobalt, TCLP	mg/L	---	---	---	---	1	---	---	---	---	0.029	< 0.010	0.027	0.018	0.093	
Copper, TCLP	mg/L	---	---	---	---	0.65	---	---	---	---	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Cyanide, TCLP	mg/L	---	---	---	---	0.2	---	---	---	---	---	---	---	---	---	
Iron, TCLP	mg/L	---	---	---	---	5	---	---	---	---	2.2	1.6	< 0.25	< 0.25	< 0.25	
Magnesium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	75	140	35	97	280	
Manganese, TCLP	mg/L	---	---	---	---	0.15	---	---	---	---	9.3	1.9	5.2	6.3	8.9	
Nickel, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---	0.032	< 0.020	0.021	0.03	0.086	
Potassium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	2.3	1.8	1.4	1.4	1.1	
Sodium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Thallium, TCLP	mg/L	---	---	---	---	0.002	---	---	---	---	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Vanadium, TCLP	mg/L	---	---	---	---	0.049	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Zinc, TCLP	mg/L	---	---	---	---	5	---	---	---	---	0.12	< 0.050	< 0.050	< 0.050	< 0.050	

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-8)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 3 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-8-B03 (15-20)	2697-8-B04 (0-3)	2697-8-B05 (0-6)	2697-8-B05 Dup (0-6)	2697-8-B06 (0-1)							
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL										CCDD	Sample Depth (feet)	(15-20)	(0-3)	(0-6)	(0-6)	(0-1)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I																	
		Chicago	MSAs	pH 6.25-9.0	Date Collected	08/25/2015	08/25/2015	08/25/2015	09/14/2015	08/25/2015													
Inorganic Analytical Parameters																							
Arsenic	mg/kg	13	750	61	25,000	---	*	13	13	11.3		9.5	15.0	11.0	12.0	13.0							
Barium	mg/kg	5,500	690,000	14,000	870,000	---	*	110	110	1500		22	51	36	45	37							
Cadmium	mg/kg	78	1,800	200	59,000	---	*	0.6	0.6	5.2		< 0.54	< 0.58	< 0.55	< 0.56	< 0.54							
Chromium, total	mg/kg	230	270	4,100	690	---	*	16.2	16.2	21		10	19	15	16	12							
Lead	mg/kg	400	---	700	---	---	*	36	36	107		13	20	13	17	17							
Mercury	mg/kg	23	10	61	0.1	---	*	0.06	0.06	0.1		< 0.020	0.041	0.02	< 0.023	< 0.023							
Selenium	mg/kg	390	---	1,000	---	---	*	0.48	0.48	1.3		1.8	1.8	2.2	1.5	2							
Silver	mg/kg	390	---	1,000	---	---	*	0.55	0.55	4.4		< 1.1	< 1.2	< 1.1	< 1.1	< 1.1							
Antimony	mg/kg	31	---	82	---	---	*	4.0	4.0	5		< 2.2	< 2.3	< 2.2	< 2.2	< 2.2							
Beryllium	mg/kg	160	1,300	410	44,000	---	*	0.59	0.59	22		0.66	0.85	0.75	< 0.56	0.75							
Calcium	mg/kg	---	---	---	---	---	*	9,300	9,300	---		86000	1500	66000	77000	75000							
Cobalt	mg/kg	4,700	---	12,000	---	---	*	8.9	8.9	20		8.6	14	12	11	8.9							
Copper	mg/kg	2,900	---	8,200	---	---	*	19.6	19.6	2900		22	30	23	23	23							
Cyanide	mg/kg	1,600	---	4,100	---	---	*	0.51	0.51	---		< 0.29	1.1	0.44	< 0.29	< 0.29							
Iron	mg/kg	---	---	---	---	---	---	15,900	15,900	15000		20000	30000	22000	25000	23000							
Magnesium	mg/kg	325,000	---	730,000	---	---	*	4,820	4,820	325000		47000	3300	30000	34000	39000							
Manganese	mg/kg	1,600	69,000	4,100	8,700	---	*	636	636	630		530	590	470	580	540							
Nickel	mg/kg	1,600	13,000	4,100	440,000	---	*	18	18	100		21	28	28	33	22							
Potassium	mg/kg	---	---	---	---	---	---	1,268	1,268	---		1400	1200	1600	1700	990							
Sodium	mg/kg	---	---	---	---	---	*	130	130	---		450	1700	690	820	1700							
Thallium	mg/kg	6.3	---	160	---	---	*	0.32	0.32	2.6		< 1.1	< 1.2	< 1.1	< 1.1	< 1.1							
Vanadium	mg/kg	550	---	1,400	---	---	*	25.2	25.2	550		13	24	18	19	17							
Zinc	mg/kg	23,000	---	61,000	---	---	*	95	95	5100		57	70	66	66	68							
pH									6.25	9		7.1	7.5	8.2	8.4	8.3							
Inorganic Analytical Parameters (SPLP)																							
Antimony,SPLP	mg/L	---	---	---	---	0.006	---	---	---	---		--	--	--	< 0.0060	--							
Arsenic,SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		--	--	--	0.01	--							
Barium,SPLP	mg/L	---	---	---	---	2	---	---	---	---		--	--	--	0.076	--							
Beryllium,SPLP	mg/L	---	---	---	---	0.004	---	---	---	---		--	--	--	< 0.0020	--							
Cadmium,SPLP	mg/L	---	---	---	---	0.005	---	---	---	---		--	--	--	< 0.0020	--							
Calcium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	7.4	--							
Chromium,SPLP	mg/L	---	---	---	---	0.1	---	---	---	---		--	--	--	0.019	--							
Cobalt,SPLP	mg/L	---	---	---	---	1	---	---	---	---		--	--	--	< 0.0040	--							
Copper,SPLP	mg/L	---	---	---	---	0.65	---	---	---	---		--	--	--	< 0.020	--							
Iron,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	14	--							
Lead,SPLP	mg/L	---	---	---	---	0.0075	---	---	---	---		--	--	--	0.0066	--							
Magnesium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	4.8	--							
Manganese,SPLP	mg/L	---	---	---	---	0.15	---	---	---	---		< 0.010	0.3	0.14	0.056	0.35							
Mercury,SPLP	mg/L	---	---	---	---	0.002	---	---	---	---		--	--	--	< 0.00020	--							
Nickel,SPLP	mg/L	---	---	---	---	0.1	---	---	---	---		--	--	--	0.014	--							
Potassium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	7.9	--							
Selenium,SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		--	--	--	< 0.0080	--							
Silver,SPLP	mg/L	---	---	---	---	0.05	---	---	---	---		--	--	--	< 0.0040	--							
Sodium,SPLP	mg/L	---	---	---	---	---	---	---	---	---		--	--	--	27	--							
Thallium,SPLP	mg/L	---	---	---	---	0.002	---	---	---	---		--	--	--	< 0.0020	--							
Vanadium,SPLP	mg/L	---	---	---	---	0.049	---	---	---	---		--	--	--	0.03	--							
Zinc,SPLP	mg/L	---	---	---	---	5	---	---	---	---		--	--	--	0.039	--							
Cyanide,SPLP	mg/L	---	---	---	---	0.2	---	---	---	---		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050							

Comparison of Detected Constituents to MAC Values
IDOT No. PTB 174-009; Work Order: 09A
Preliminary Site Investigation
FAU 297 - US Route 6 at Gougar Road (PESA #2697-8)
Joliet/New Lenox, IL
Terracon Project No. 11157109
Page 4 of 4

Analyte	Units	IEPA Tier 1 Soil Remediation Objectives						Background		Maximum Allowed Concentration	Sample Identification	2697-8-B03	2697-8-B04	2697-8-B05	2697-8-B05	2697-8-B06		
		Residential Properties		Construction Workers		Soil Component of the Groundwater Ingestion Route	ADL					CCDD	Sample Depth (feet)	(15-20)	(0-3)	(0-6)	Dup (0-6)	(0-1)
		Ingestion	Inhalation	Ingestion	Inhalation	Class I								Chicago	MSAs	mg/kg	Date Collected	08/25/2015
										pH 6.25-9.0								
Inorganic Analytical Parameters (TCLP)																		
Arsenic, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Barium, TCLP	mg/L	---	---	---	---	2	---	---	---	---	0.31	0.14	0.28	0.25	0.22			
Cadmium, TCLP	mg/L	---	---	---	---	0.005	---	---	---	---	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Chromium, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Lead, TCLP	mg/L	---	---	---	---	0.0075	---	---	---	---	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Mercury, TCLP	mg/L	---	---	---	---	0.002	---	---	---	---	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020			
Selenium, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.020	< 0.010			
Silver, TCLP	mg/L	---	---	---	---	0.05	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Antimony, TCLP	mg/L	---	---	---	---	0.006	---	---	---	---	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015			
Beryllium, TCLP	mg/L	---	---	---	---	0.004	---	---	---	---	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Calcium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	490	44	730	640	990			
Cobalt, TCLP	mg/L	---	---	---	---	1	---	---	---	---	0.032	< 0.010	< 0.010	< 0.010	0.042			
Copper, TCLP	mg/L	---	---	---	---	0.65	---	---	---	---	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10			
Cyanide, TCLP	mg/L	---	---	---	---	0.2	---	---	---	---	---	---	---	---	---			
Iron, TCLP	mg/L	---	---	---	---	5	---	---	---	---	< 0.25	0.51	< 0.25	8.4	< 0.25			
Magnesium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	130	9.9	59	29	330			
Manganese, TCLP	mg/L	---	---	---	---	0.15	---	---	---	---	4.1	1.3	1.2	1.1	5.6			
Nickel, TCLP	mg/L	---	---	---	---	0.1	---	---	---	---	0.027	< 0.020	< 0.020	0.022	0.055			
Potassium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	3.7	1.5	2.1	1.2	0.74			
Sodium, TCLP	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Thallium, TCLP	mg/L	---	---	---	---	0.002	---	---	---	---	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Vanadium, TCLP	mg/L	---	---	---	---	0.049	---	---	---	---	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
Zinc, TCLP	mg/L	---	---	---	---	5	---	---	---	---	0.22	< 0.050	< 0.050	< 0.050	< 0.050			

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 04, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080904 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet IL

Dear Richard O'Brien:

STAT Analysis received 1 sample for the referenced project on 8/24/2015 6:50:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet IL
Work Order: 15080904 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080904-001A	2697-8-B01 (0-3)		8/24/2015 3:10:00 PM	8/24/2015
15080904-001B	2697-8-B01 (0-3)		8/24/2015 3:10:00 PM	8/24/2015

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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B01 (0-3)

Work Order: 15080904 Revision 1

Collection Date: 8/24/2015 3:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet IL

Matrix: Soil

Lab ID: 15080904-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS**SW5035/8260B**

Prep Date: 8/24/2015

Analyst: ART

Acetone	ND	0.067		mg/Kg-dry	1	8/28/2015
Benzene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Bromodichloromethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
Bromoform	ND	0.0045		mg/Kg-dry	1	8/28/2015
Bromomethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
2-Butanone	ND	0.067		mg/Kg-dry	1	8/28/2015
Carbon disulfide	ND	0.045		mg/Kg-dry	1	8/28/2015
Carbon tetrachloride	ND	0.0045		mg/Kg-dry	1	8/28/2015
Chlorobenzene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Chloroethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
Chloroform	ND	0.0045		mg/Kg-dry	1	8/28/2015
Chloromethane	ND	0.0089		mg/Kg-dry	1	8/28/2015
Dibromochloromethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,2-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
cis-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
trans-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,2-Dichloropropane	ND	0.0045		mg/Kg-dry	1	8/28/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/28/2015
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	8/28/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/28/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/28/2015
Methylene chloride	ND	0.0089		mg/Kg-dry	1	8/28/2015
Methyl tert-butyl ether	ND	0.0045		mg/Kg-dry	1	8/28/2015
Styrene	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1,2,2-Tetrachloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
Tetrachloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Toluene	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1,1-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
1,1,2-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/28/2015
Trichloroethene	ND	0.0045		mg/Kg-dry	1	8/28/2015
Vinyl chloride	ND	0.0045		mg/Kg-dry	1	8/28/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/28/2015

Semivolatile Organic Compounds by GC/MS**SW8270C (SW3550B)**

Prep Date: 8/26/2015

Analyst: DM

Acenaphthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/28/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B01 (0-3)

Work Order: 15080904 Revision 1

Collection Date: 8/24/2015 3:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet IL

Matrix: Soil

Lab ID: 15080904-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/28/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzidine	ND	0.37		mg/Kg-dry	1	8/28/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	8/28/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	8/28/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/28/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/28/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/28/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/28/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	8/28/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/28/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/28/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B01 (0-3)

Work Order: 15080904 Revision 1

Collection Date: 8/24/2015 3:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet IL

Matrix: Soil

Lab ID: 15080904-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3550B)		Prep Date: 8/26/2015		Analyst: DM	
Fluoranthene	ND	0.037		mg/Kg-dry	1	8/28/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/28/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/28/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/28/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/28/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/28/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/28/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/28/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/28/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/28/2015
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	8/28/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/28/2015
Pyridine	ND	0.76		mg/Kg-dry	1	8/28/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/28/2015
Metals by ICP/MS						
	SW6020 (SW3050B)		Prep Date: 8/25/2015		Analyst: JG	
Antimony	ND	2.2		mg/Kg-dry	10	8/25/2015
Arsenic	10	1.1		mg/Kg-dry	10	8/25/2015
Barium	58	1.1		mg/Kg-dry	10	8/25/2015
Beryllium	0.72	0.54		mg/Kg-dry	10	8/26/2015
Cadmium	ND	0.54		mg/Kg-dry	10	8/25/2015
Calcium	49000	65		mg/Kg-dry	10	8/25/2015
Chromium	13	1.1		mg/Kg-dry	10	8/25/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
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Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B01 (0-3)

Work Order: 15080904 Revision 1

Collection Date: 8/24/2015 3:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet IL

Matrix: Soil

Lab ID: 15080904-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/25/2015		Analyst: JG
Cobalt	9.5	1.1		mg/Kg-dry	10	8/25/2015
Copper	28	2.7		mg/Kg-dry	10	8/25/2015
Iron	20000	32		mg/Kg-dry	10	8/25/2015
Lead	23	0.54		mg/Kg-dry	10	8/25/2015
Magnesium	28000	32		mg/Kg-dry	10	8/25/2015
Manganese	470	1.1		mg/Kg-dry	10	8/25/2015
Nickel	21	1.1		mg/Kg-dry	10	8/25/2015
Potassium	1100	32		mg/Kg-dry	10	8/25/2015
Selenium	1.8	1.1		mg/Kg-dry	10	8/25/2015
Silver	ND	1.1		mg/Kg-dry	10	8/25/2015
Sodium	1700	65		mg/Kg-dry	10	8/25/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/25/2015
Vanadium	19	1.1		mg/Kg-dry	10	8/25/2015
Zinc	67	5.4		mg/Kg-dry	10	8/25/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 9/8/2015		Analyst: JG
Lead	0.021	0.0020		mg/L	2	9/8/2015
Manganese	0.18	0.0040		mg/L	2	9/8/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/26/2015
Arsenic	ND	0.010		mg/L	5	8/26/2015
Barium	0.57	0.050		mg/L	5	8/26/2015
Beryllium	ND	0.0050		mg/L	5	8/26/2015
Cadmium	ND	0.0050		mg/L	5	8/26/2015
Calcium	250	0.50		mg/L	5	8/26/2015
Chromium	ND	0.010		mg/L	5	8/26/2015
Cobalt	0.029	0.010		mg/L	5	8/26/2015
Copper	ND	0.10		mg/L	5	8/26/2015
Iron	2.2	0.25		mg/L	5	8/26/2015
Lead	0.016	0.0050		mg/L	5	8/26/2015
Magnesium	75	0.25		mg/L	5	8/26/2015
Manganese	9.3	0.010		mg/L	5	8/26/2015
Nickel	0.032	0.020		mg/L	5	8/26/2015
Potassium	2.3	0.25		mg/L	5	8/26/2015
Selenium	ND	0.010		mg/L	5	8/26/2015
Silver	ND	0.010		mg/L	5	8/26/2015
Thallium	ND	0.0050		mg/L	5	8/26/2015
Vanadium	ND	0.010		mg/L	5	8/26/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 04, 2015

ANALYTICAL RESULTS

Date Printed: September 04, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B01 (0-3)

Work Order: 15080904 Revision 1

Collection Date: 8/24/2015 3:10:00 PM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet IL

Matrix: Soil

Lab ID: 15080904-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/25/2015		Analyst: JG
Zinc	0.12	0.050		mg/L	5	8/26/2015
TCLP Mercury	SW1311/7470A			Prep Date: 8/25/2015		Analyst: LB
Mercury	ND	0.00020		mg/L	1	8/25/2015
Mercury	SW7471A			Prep Date: 8/25/2015		Analyst: LB
Mercury	0.028	0.020		mg/Kg-dry	1	8/25/2015
Cyanide, Leached	SW1312/9012A			Prep Date: 8/27/2015		Analyst: YZ
Cyanide	ND	0.0050		mg/L	1	8/27/2015
Cyanide, Total	SW9012A			Prep Date: 8/25/2015		Analyst: YZ
Cyanide	ND	0.28		mg/Kg-dry	1	8/25/2015
pH (25 °C)	SW9045C			Prep Date: 8/25/2015		Analyst: GH
pH	8.1			pH Units	1	8/25/2015
Percent Moisture	D2974			Prep Date: 8/24/2015		Analyst: GH
Percent Moisture	11.9	0.2	*	wt%	1	8/25/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

Sample Receipt Checklist

Client Name TERRACON-NAPERVILLE


Date and Time Received: 8/24/2015 6:50:00 PM

Work Order Number 15080904

Received by: DO

Checklist completed by: 
Signature

8/24/15
Date

Reviewed by:  8/25/15
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 2.7 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by
- Water - Samples properly preserved? Yes No pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Monday, August 31, 2015 6:05 PM
To: Craig Chawla
Cc: Frank Capoccia
Subject: Re: 11157109, IDOT FAU 297, New Lenox / Joliet IL 15080904

Regarding this report, please run the following additional analysis on Standard turnaround:

SPLP Lead
SPLP Manganese.

Please confirm receipt.

Thanks,
Richard

On Aug 31, 2015, at 5:56 PM, Craig Chawla <cchawla@statanalysis.com<mailto:cchawla@statanalysis.com>>>
wrote:

STAT Analysis Corporation

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September 08, 2015

Terracon Consultants, Inc.
135 Ambassador Drive
Naperville, IL 60540
Telephone: (630) 717-4263
Fax: (630) 357-9489

Analytical Report for STAT Work Order: 15080945 Revision 1

RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Dear Richard O'Brien:

STAT Analysis received 7 samples for the referenced project on 8/25/2015 6:55:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Terracon Consultants, Inc.
Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL
Work Order: 15080945 Revision 1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15080945-001A	2697-8-B03 (0-5)		8/25/2015 9:45:00 AM	8/25/2015
15080945-001B	2697-8-B03 (0-5)		8/25/2015 9:45:00 AM	8/25/2015
15080945-002A	2697-8-B03 (5-10)		8/25/2015 9:50:00 AM	8/25/2015
15080945-002B	2697-8-B03 (5-10)		8/25/2015 9:50:00 AM	8/25/2015
15080945-003A	2697-8-B03 (10-15)		8/25/2015 9:55:00 AM	8/25/2015
15080945-003B	2697-8-B03 (10-15)		8/25/2015 9:55:00 AM	8/25/2015
15080945-004A	2697-8-B03 (15-20)		8/25/2015 10:05:00 AM	8/25/2015
15080945-004B	2697-8-B03 (15-20)		8/25/2015 10:05:00 AM	8/25/2015
15080945-005A	2697-8-B04 (0-3)		8/25/2015 10:27:00 AM	8/25/2015
15080945-005B	2697-8-B04 (0-3)		8/25/2015 10:27:00 AM	8/25/2015
15080945-006A	2697-8-B05 (0-6)		8/25/2015 10:40:00 AM	8/25/2015
15080945-006B	2697-8-B05 (0-6)		8/25/2015 10:40:00 AM	8/25/2015
15080945-007A	2697-8-B06 (0-1)		8/25/2015 11:00:00 AM	8/25/2015
15080945-007B	2697-8-B06 (0-1)		8/25/2015 11:00:00 AM	8/25/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (0-5)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.070		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0046		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0093		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.070		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.046		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0093		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0046		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0093		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0093		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/29/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (0-5)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.97		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (0-5)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.078		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.78		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.4		mg/Kg-dry	10	8/27/2015
Arsenic	12	1.2		mg/Kg-dry	10	8/26/2015
Barium	65	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	0.90	0.59		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.59		mg/Kg-dry	10	8/26/2015
Calcium	27000	71		mg/Kg-dry	10	8/26/2015
Chromium	15	1.2		mg/Kg-dry	10	8/26/2015

Qualifiers:
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 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (0-5)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG
Cobalt	11	1.2		mg/Kg-dry	10	8/26/2015
Copper	22	2.9		mg/Kg-dry	10	8/26/2015
Iron	23000	35		mg/Kg-dry	10	8/26/2015
Lead	19	0.59		mg/Kg-dry	10	8/26/2015
Magnesium	14000	35		mg/Kg-dry	10	8/26/2015
Manganese	620	1.2		mg/Kg-dry	10	8/26/2015
Nickel	22	1.2		mg/Kg-dry	10	8/26/2015
Potassium	1000	35		mg/Kg-dry	10	8/26/2015
Selenium	2.1	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	1400	71		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	20	1.2		mg/Kg-dry	10	8/26/2015
Zinc	64	5.9		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS		SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG
Manganese	0.34	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.32	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	550	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.027	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	35	0.25		mg/L	5	8/27/2015
Manganese	5.2	0.010		mg/L	5	8/27/2015
Nickel	0.021	0.020		mg/L	5	8/27/2015
Potassium	1.4	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (0-5)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:45:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.028	0.022		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: YZ 8/28/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.9			pH Units	Prep Date: 8/26/2015 1	Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 15.3	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (5-10)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.062		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0041		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0041		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0041		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0083		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.062		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.041		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0041		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0041		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0083		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0041		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0083		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0041		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0041		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0041		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0041		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0041		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0041		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0041		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0041		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0083		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0041		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0041		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0041		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0041		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0041		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0041		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0041		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0041		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0041		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.012		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/29/2015

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (5-10)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.38		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015

Qualifiers:

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (5-10)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/27/2015	Analyst: DM
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Fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/26/2015	Analyst: JG
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Antimony	ND	2.3		mg/Kg-dry	10	8/27/2015
Arsenic	13	1.1		mg/Kg-dry	10	8/26/2015
Barium	41	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.85	0.57		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.57		mg/Kg-dry	10	8/26/2015
Calcium	58000	69		mg/Kg-dry	10	8/26/2015
Chromium	12	1.1		mg/Kg-dry	10	8/26/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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	HT - Sample received past holding time	E - Value above quantitation range
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ANALYTICAL RESULTS

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Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (5-10)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	10	1.1		mg/Kg-dry	10	8/26/2015
Copper	23	2.9		mg/Kg-dry	10	8/26/2015
Iron	23000	34		mg/Kg-dry	10	8/26/2015
Lead	16	0.57		mg/Kg-dry	10	8/26/2015
Magnesium	34000	34		mg/Kg-dry	10	8/26/2015
Manganese	570	1.1		mg/Kg-dry	10	8/26/2015
Nickel	24	1.1		mg/Kg-dry	10	8/26/2015
Potassium	1000	34		mg/Kg-dry	10	8/26/2015
Selenium	2.0	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	1100	69		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	17	1.1		mg/Kg-dry	10	8/26/2015
Zinc	81	5.7		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.082	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.46	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	440	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.018	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	97	0.25		mg/L	5	8/27/2015
Manganese	6.3	0.010		mg/L	5	8/27/2015
Nickel	0.030	0.020		mg/L	5	8/27/2015
Potassium	1.4	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (5-10)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:50:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A ND	0.023		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: YZ 8/28/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: MD 8/26/2015
pH (25 °C) pH	SW9045C 7.3			pH Units	Prep Date: 8/26/2015 1	Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 13.9	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (10-15)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.067		mg/Kg-dry	1	8/31/2015
Benzene	ND	0.0045		mg/Kg-dry	1	8/31/2015
Bromodichloromethane	ND	0.0045		mg/Kg-dry	1	8/31/2015
Bromoform	ND	0.0045		mg/Kg-dry	1	8/31/2015
Bromomethane	ND	0.0090		mg/Kg-dry	1	8/31/2015
2-Butanone	ND	0.067		mg/Kg-dry	1	8/31/2015
Carbon disulfide	ND	0.045		mg/Kg-dry	1	8/31/2015
Carbon tetrachloride	ND	0.0045		mg/Kg-dry	1	8/31/2015
Chlorobenzene	ND	0.0045		mg/Kg-dry	1	8/31/2015
Chloroethane	ND	0.0090		mg/Kg-dry	1	8/31/2015
Chloroform	ND	0.0045		mg/Kg-dry	1	8/31/2015
Chloromethane	ND	0.0090		mg/Kg-dry	1	8/31/2015
Dibromochloromethane	ND	0.0045		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2015
1,2-Dichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2015
1,1-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2015
cis-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2015
trans-1,2-Dichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2015
1,2-Dichloropropane	ND	0.0045		mg/Kg-dry	1	8/31/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/31/2015
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	8/31/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/31/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/31/2015
Methylene chloride	ND	0.0090		mg/Kg-dry	1	8/31/2015
Methyl tert-butyl ether	ND	0.0045		mg/Kg-dry	1	8/31/2015
Styrene	ND	0.0045		mg/Kg-dry	1	8/31/2015
1,1,2,2-Tetrachloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2015
Tetrachloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2015
Toluene	ND	0.0045		mg/Kg-dry	1	8/31/2015
1,1,1-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2015
1,1,2-Trichloroethane	ND	0.0045		mg/Kg-dry	1	8/31/2015
Trichloroethene	ND	0.0045		mg/Kg-dry	1	8/31/2015
Vinyl chloride	ND	0.0045		mg/Kg-dry	1	8/31/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/31/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/29/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (10-15)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.40		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzidine	ND	0.39		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.99		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (10-15)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
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Fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.80		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015

Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG
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Antimony	ND	2.4		mg/Kg-dry	10	8/27/2015
Arsenic	8.5	1.2		mg/Kg-dry	10	8/26/2015
Barium	56	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	0.93	0.59		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.59		mg/Kg-dry	10	8/26/2015
Calcium	54000	71		mg/Kg-dry	10	8/26/2015
Chromium	19	1.2		mg/Kg-dry	10	8/26/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (10-15)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS						
	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	11	1.2		mg/Kg-dry	10	8/26/2015
Copper	22	2.9		mg/Kg-dry	10	8/26/2015
Iron	24000	35		mg/Kg-dry	10	8/26/2015
Lead	14	0.59		mg/Kg-dry	10	8/26/2015
Magnesium	23000	35		mg/Kg-dry	10	8/26/2015
Manganese	420	1.2		mg/Kg-dry	10	8/26/2015
Nickel	31	1.2		mg/Kg-dry	10	8/26/2015
Potassium	1900	35		mg/Kg-dry	10	8/26/2015
Selenium	2.4	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	990	71		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	23	1.2		mg/Kg-dry	10	8/26/2015
Zinc	59	5.9		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS						
	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.30	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS						
	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.30	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	1400	10		mg/L	100	8/30/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.093	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	0.0057	0.0050		mg/L	5	8/27/2015
Magnesium	280	0.25		mg/L	5	8/27/2015
Manganese	8.9	0.010		mg/L	5	8/27/2015
Nickel	0.086	0.020		mg/L	5	8/27/2015
Potassium	1.1	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (10-15)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 9:55:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Mercury Mercury	SW7471A ND	0.023		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: YZ 8/28/2015
Cyanide, Total Cyanide	SW9012A ND	0.30		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: YZ 8/27/2015
pH (25 °C) pH	SW9045C 7.9			pH Units	Prep Date: 8/26/2015 1	Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 16.5	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (15-20)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.063		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0083		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.063		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.042		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0083		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0083		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0042		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0083		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0042		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0042		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.037		mg/Kg-dry	1	8/29/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (15-20)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzidine	ND	0.37		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.94		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.94		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.037		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.37		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.037		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (15-20)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/27/2015	Analyst: DM
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Fluoranthene	ND	0.037		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.037		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.037		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.37		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.037		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.037		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.076		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.037		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.76		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/26/2015	Analyst: JG
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Antimony	ND	2.2		mg/Kg-dry	10	8/27/2015
Arsenic	9.5	1.1		mg/Kg-dry	10	8/26/2015
Barium	22	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.66	0.54		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.54		mg/Kg-dry	10	8/26/2015
Calcium	86000	65		mg/Kg-dry	10	8/26/2015
Chromium	10	1.1		mg/Kg-dry	10	8/26/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (15-20)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Cobalt	8.6	1.1		mg/Kg-dry	10	8/26/2015
Copper	22	2.7		mg/Kg-dry	10	8/26/2015
Iron	20000	32		mg/Kg-dry	10	8/26/2015
Lead	13	0.54		mg/Kg-dry	10	8/26/2015
Magnesium	47000	32		mg/Kg-dry	10	8/26/2015
Manganese	530	1.1		mg/Kg-dry	10	8/26/2015
Nickel	21	1.1		mg/Kg-dry	10	8/26/2015
Potassium	1400	32		mg/Kg-dry	10	8/26/2015
Selenium	1.8	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	450	65		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	13	1.1		mg/Kg-dry	10	8/26/2015
Zinc	57	5.4		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG	
Manganese	ND	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.31	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	490	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.032	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	130	0.25		mg/L	5	8/27/2015
Manganese	4.1	0.010		mg/L	5	8/27/2015
Nickel	0.027	0.020		mg/L	5	8/27/2015
Potassium	3.7	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	0.22	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B03 (15-20)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:05:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/27/2015
Mercury Mercury	SW7471A ND	0.020		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: YZ 8/28/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: YZ 8/27/2015
pH (25 °C) pH	SW9045C 7.1			pH Units	Prep Date: 8/26/2015 1	Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 12.4	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B04 (0-3)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:27:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.069		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0046		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0091		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.069		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.046		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0091		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0046		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0091		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.018		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0091		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0046		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.039		mg/Kg-dry	1	8/29/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B04 (0-3)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:27:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.39		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzidine	ND	0.39		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.98		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.039		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B04 (0-3)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:27:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Fluoranthene	ND	0.039		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.039		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.039		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.039		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.039		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.79		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	2.3		mg/Kg-dry	10	8/27/2015
Arsenic	15	1.2		mg/Kg-dry	10	8/26/2015
Barium	51	1.2		mg/Kg-dry	10	8/26/2015
Beryllium	0.85	0.58		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.58		mg/Kg-dry	10	8/26/2015
Calcium	1500	70		mg/Kg-dry	10	8/26/2015
Chromium	19	1.2		mg/Kg-dry	10	8/26/2015

Qualifiers:
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B04 (0-3)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:27:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG	
Cobalt	14	1.2		mg/Kg-dry	10	8/26/2015
Copper	30	2.9		mg/Kg-dry	10	8/26/2015
Iron	30000	35		mg/Kg-dry	10	8/26/2015
Lead	20	0.58		mg/Kg-dry	10	8/26/2015
Magnesium	3300	35		mg/Kg-dry	10	8/26/2015
Manganese	590	1.2		mg/Kg-dry	10	8/26/2015
Nickel	28	1.2		mg/Kg-dry	10	8/26/2015
Potassium	1200	35		mg/Kg-dry	10	8/26/2015
Selenium	1.8	1.2		mg/Kg-dry	10	8/26/2015
Silver	ND	1.2		mg/Kg-dry	10	8/26/2015
Sodium	1700	70		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.2		mg/Kg-dry	10	8/26/2015
Vanadium	24	1.2		mg/Kg-dry	10	8/26/2015
Zinc	70	5.8		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)		Prep Date: 8/28/2015		Analyst: JG	
Manganese	0.30	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 8/26/2015		Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.14	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	44	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	ND	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	0.51	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	9.9	0.25		mg/L	5	8/27/2015
Manganese	1.3	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	1.5	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

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Qualifiers: J - Analyte detected below quantitation limits

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E - Value above quantitation range

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H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B04 (0-3)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:27:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/26/2015 Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.041	0.023		mg/Kg-dry	1	Prep Date: 8/26/2015 Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/28/2015 Analyst: YZ 8/28/2015
Cyanide, Total Cyanide	SW9012A 1.1	0.29		mg/Kg-dry	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
pH (25 °C) pH	SW9045C 7.5			pH Units	1	Prep Date: 8/26/2015 Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 15.2	0.2	*	wt%	1	Prep Date: 8/25/2015 Analyst: RW 8/26/2015

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B05 (0-6)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.063		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0042		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0084		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.063		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.042		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0084		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0042		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0084		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0042		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0017		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.017		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.017		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0084		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0042		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0042		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0042		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0042		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.013		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/29/2015

Qualifiers:
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B05 (0-6)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.95		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.95		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.19		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.19		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.95		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.19		mg/Kg-dry	1	8/29/2015

Qualifiers:

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B05 (0-6)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)				Prep Date: 8/27/2015	Analyst: DM
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Fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.19		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.19		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.19		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.19		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.19		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.19		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.19		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.19		mg/Kg-dry	1	8/29/2015

Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 8/26/2015	Analyst: JG
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Antimony	ND	2.2		mg/Kg-dry	10	8/27/2015
Arsenic	11	1.1		mg/Kg-dry	10	8/26/2015
Barium	36	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.75	0.55		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.55		mg/Kg-dry	10	8/26/2015
Calcium	66000	66		mg/Kg-dry	10	8/26/2015
Chromium	15	1.1		mg/Kg-dry	10	8/26/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

STAT Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B05 (0-6)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015		Analyst: JG
Cobalt	12	1.1		mg/Kg-dry	10	8/26/2015
Copper	23	2.7		mg/Kg-dry	10	8/26/2015
Iron	22000	33		mg/Kg-dry	10	8/26/2015
Lead	13	0.55		mg/Kg-dry	10	8/26/2015
Magnesium	30000	33		mg/Kg-dry	10	8/26/2015
Manganese	470	1.1		mg/Kg-dry	10	8/26/2015
Nickel	28	1.1		mg/Kg-dry	10	8/26/2015
Potassium	1600	33		mg/Kg-dry	10	8/26/2015
Selenium	2.2	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	690	66		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	18	1.1		mg/Kg-dry	10	8/26/2015
Zinc	66	5.5		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015		Analyst: JG
Manganese	0.14	0.020		mg/L	10	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.28	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	730	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	ND	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	59	0.25		mg/L	5	8/27/2015
Manganese	1.2	0.010		mg/L	5	8/27/2015
Nickel	ND	0.020		mg/L	5	8/27/2015
Potassium	2.1	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B05 (0-6)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 10:40:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	1	Prep Date: 8/26/2015 Analyst: LB 8/27/2015
Mercury Mercury	SW7471A 0.020	0.020		mg/Kg-dry	1	Prep Date: 8/26/2015 Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	1	Prep Date: 8/28/2015 Analyst: YZ 8/28/2015
Cyanide, Total Cyanide	SW9012A 0.44	0.29		mg/Kg-dry	1	Prep Date: 8/26/2015 Analyst: YZ 8/27/2015
pH (25 °C) pH	SW9045C 8.2			pH Units	1	Prep Date: 8/26/2015 Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 13.5	0.2	*	wt%	1	Prep Date: 8/25/2015 Analyst: RW 8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B06 (0-1)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		SW5035/8260B		Prep Date: 8/26/2015		Analyst: PS
Acetone	ND	0.071		mg/Kg-dry	1	8/30/2015
Benzene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Bromodichloromethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
Bromoform	ND	0.0047		mg/Kg-dry	1	8/30/2015
Bromomethane	ND	0.0095		mg/Kg-dry	1	8/30/2015
2-Butanone	ND	0.071		mg/Kg-dry	1	8/30/2015
Carbon disulfide	ND	0.047		mg/Kg-dry	1	8/30/2015
Carbon tetrachloride	ND	0.0047		mg/Kg-dry	1	8/30/2015
Chlorobenzene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Chloroethane	ND	0.0095		mg/Kg-dry	1	8/30/2015
Chloroform	ND	0.0047		mg/Kg-dry	1	8/30/2015
Chloromethane	ND	0.0095		mg/Kg-dry	1	8/30/2015
Dibromochloromethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,2-Dichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
cis-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
trans-1,2-Dichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,2-Dichloropropane	ND	0.0047		mg/Kg-dry	1	8/30/2015
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	8/30/2015
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	8/30/2015
2-Hexanone	ND	0.019		mg/Kg-dry	1	8/30/2015
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	8/30/2015
Methylene chloride	ND	0.0095		mg/Kg-dry	1	8/30/2015
Methyl tert-butyl ether	ND	0.0047		mg/Kg-dry	1	8/30/2015
Styrene	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1,2,2-Tetrachloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
Tetrachloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Toluene	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1,1-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
1,1,2-Trichloroethane	ND	0.0047		mg/Kg-dry	1	8/30/2015
Trichloroethene	ND	0.0047		mg/Kg-dry	1	8/30/2015
Vinyl chloride	ND	0.0047		mg/Kg-dry	1	8/30/2015
Xylenes, Total	ND	0.014		mg/Kg-dry	1	8/30/2015
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Acenaphthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Acenaphthylene	ND	0.038		mg/Kg-dry	1	8/29/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B06 (0-1)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM	
Aniline	ND	0.38		mg/Kg-dry	1	8/29/2015
Anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzidine	ND	0.38		mg/Kg-dry	1	8/29/2015
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Benzoic acid	ND	0.96		mg/Kg-dry	1	8/29/2015
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	8/29/2015
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Carbazole	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	8/29/2015
Chrysene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	8/29/2015
Dibenzofuran	ND	0.20		mg/Kg-dry	1	8/29/2015
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	8/29/2015
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	8/29/2015
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	8/29/2015
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	8/29/2015

Qualifiers:	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B06 (0-1)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3550B)		Prep Date: 8/27/2015		Analyst: DM
Fluoranthene	ND	0.038		mg/Kg-dry	1	8/29/2015
Fluorene	ND	0.038		mg/Kg-dry	1	8/29/2015
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	8/29/2015
Hexachloroethane	ND	0.20		mg/Kg-dry	1	8/29/2015
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Isophorone	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Methylphenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Naphthalene	ND	0.038		mg/Kg-dry	1	8/29/2015
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	8/29/2015
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	8/29/2015
Nitrobenzene	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	8/29/2015
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	8/29/2015
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	8/29/2015
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	8/29/2015
Phenanthrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Phenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Pyrene	ND	0.038		mg/Kg-dry	1	8/29/2015
Pyridine	ND	0.77		mg/Kg-dry	1	8/29/2015
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	8/29/2015
Metals by ICP/MS		SW6020 (SW3050B)		Prep Date: 8/26/2015		Analyst: JG
Antimony	ND	2.2		mg/Kg-dry	10	8/27/2015
Arsenic	13	1.1		mg/Kg-dry	10	8/26/2015
Barium	37	1.1		mg/Kg-dry	10	8/26/2015
Beryllium	0.75	0.54		mg/Kg-dry	10	8/27/2015
Cadmium	ND	0.54		mg/Kg-dry	10	8/26/2015
Calcium	75000	65		mg/Kg-dry	10	8/26/2015
Chromium	12	1.1		mg/Kg-dry	10	8/26/2015

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
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Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B06 (0-1)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 8/26/2015	Analyst: JG	
Cobalt	8.9	1.1		mg/Kg-dry	10	8/26/2015
Copper	23	2.7		mg/Kg-dry	10	8/26/2015
Iron	23000	33		mg/Kg-dry	10	8/26/2015
Lead	17	0.54		mg/Kg-dry	10	8/26/2015
Magnesium	39000	33		mg/Kg-dry	10	8/26/2015
Manganese	540	1.1		mg/Kg-dry	10	8/26/2015
Nickel	22	1.1		mg/Kg-dry	10	8/26/2015
Potassium	990	33		mg/Kg-dry	10	8/26/2015
Selenium	2.0	1.1		mg/Kg-dry	10	8/26/2015
Silver	ND	1.1		mg/Kg-dry	10	8/26/2015
Sodium	1700	65		mg/Kg-dry	10	8/26/2015
Thallium	ND	1.1		mg/Kg-dry	10	8/26/2015
Vanadium	17	1.1		mg/Kg-dry	10	8/26/2015
Zinc	68	5.4		mg/Kg-dry	10	8/26/2015
SPLP Metals by ICP/MS	SW1312/6020 (SW3005A)			Prep Date: 8/28/2015	Analyst: JG	
Manganese	0.35	0.010		mg/L	5	9/4/2015
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 8/26/2015	Analyst: JG	
Antimony	ND	0.015		mg/L	5	8/27/2015
Arsenic	ND	0.010		mg/L	5	8/27/2015
Barium	0.22	0.050		mg/L	5	8/27/2015
Beryllium	ND	0.0050		mg/L	5	8/27/2015
Cadmium	ND	0.0050		mg/L	5	8/27/2015
Calcium	990	0.50		mg/L	5	8/27/2015
Chromium	ND	0.010		mg/L	5	8/27/2015
Cobalt	0.042	0.010		mg/L	5	8/27/2015
Copper	ND	0.10		mg/L	5	8/27/2015
Iron	ND	0.25		mg/L	5	8/27/2015
Lead	ND	0.0050		mg/L	5	8/27/2015
Magnesium	330	0.25		mg/L	5	8/27/2015
Manganese	5.6	0.010		mg/L	5	8/27/2015
Nickel	0.055	0.020		mg/L	5	8/27/2015
Potassium	0.74	0.25		mg/L	5	8/27/2015
Selenium	ND	0.010		mg/L	5	8/27/2015
Silver	ND	0.010		mg/L	5	8/27/2015
Thallium	ND	0.0050		mg/L	5	8/27/2015
Vanadium	ND	0.010		mg/L	5	8/27/2015
Zinc	ND	0.050		mg/L	5	8/27/2015

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

* - Non-accredited parameter

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 08, 2015

ANALYTICAL RESULTS

Date Printed: September 08, 2015

Client: Terracon Consultants, Inc.

Client Sample ID: 2697-8-B06 (0-1)

Work Order: 15080945 Revision 1

Collection Date: 8/25/2015 11:00:00 AM

Project: 11157109, IDOT FAU 297, New Lenox / Joliet, IL

Matrix: Soil

Lab ID: 15080945-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury Mercury	SW1311/7470A ND	0.00020		mg/L	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Mercury Mercury	SW7471A ND	0.023		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: LB 8/26/2015
Cyanide, Leached Cyanide	SW1312/9012A ND	0.0050		mg/L	Prep Date: 8/28/2015 1	Analyst: YZ 8/28/2015
Cyanide, Total Cyanide	SW9012A ND	0.29		mg/Kg-dry	Prep Date: 8/26/2015 1	Analyst: YZ 8/27/2015
pH (25 °C) pH	SW9045C 8.3			pH Units	Prep Date: 8/26/2015 1	Analyst: GH 8/26/2015
Percent Moisture Percent Moisture	D2974 13.9	0.2	*	wt%	Prep Date: 8/25/2015 1	Analyst: RW 8/26/2015

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

Sample Receipt Checklist


Client Name TERRACON-NAPERVILLE

Date and Time Received: 8/25/2015 6:55:00 PM

Work Order Number 15080945

Received by: DO

Checklist completed by:  8/25/15
Signature Date

Reviewed by:  8/26/15
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature 4.2 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by:
- Water - Samples properly preserved? Yes No pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080945

Craig Chawla

From: O'Brien, Richard M [Rich.O'Brien@terracon.com]
Sent: Wednesday, September 02, 2015 3:19 PM
To: Craig Chawla
Subject: RE: 11157109, IDOT FAU 297, New Lenox / Joliet, IL 15080945

Hi Craig,

Please run the following samples for this job for **SPLP Manganese** on Standard turnaround.

2697-8-B03 (0-5)
2697-8-B03 (5-10)
2697-8-B03 (10-15)
2697-8-B03 (15-20)
2697-8-B04 (0-3)
2697-8-B05 (0-6)
2697-8-B06 (0-1)

Please confirm receipt.

Thanks,

Richard O'Brien, P.E.
Senior Project Engineer
Environmental Services

Terracon Consultants, Inc.

650 West Lake Street, Suite 420 | Chicago, IL 60661
P (312) 575-0014 | F (312) 575-0111 | C (312) 443-2958
rmobrien@terracon.com | terracon.com

