



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

LaGrange Road (near US 34 and LaGrange Road intersection) from IDOT STA 505+20 to 505+40 (ISGS Site 2633-3)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B01 was sampled adjacent to ISGS Site No 2633-3. See Exhibits 2, 2A, and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108249-1. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:

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

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-3-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		8.3
Barium	mg/kg	---	110	1500		57
Cadmium	mg/kg	---	0.6	5.2		0.047
Chromium, total	mg/kg	---	16.2	21		20
Lead	mg/kg	---	36	107		17
Mercury	mg/kg	---	0.06	0.1		0.08
Selenium	mg/kg	---	0.48	1.3		0.83
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		<1.2
Beryllium	mg/kg	---	0.59	22		0.75
Calcium	mg/kg	---	9,300	---		7000
Cobalt	mg/kg	---	8.9	20		17
Copper	mg/kg	---	19.6	2900		29
Cyanide	mg/kg	---	0.51	---		<0.58
Iron	mg/kg	---	15,900	15000		22000
Magnesium	mg/kg	---	4,820	325000		7600
Manganese	mg/kg	---	636	630		520
Nickel	mg/kg	---	18	100		45
Potassium	mg/kg	---	1,268	---		1500
Sodium	mg/kg	---	130	---		3700
Thallium	mg/kg	---	0.32	2.6		0.68
Vanadium	mg/kg	---	25.2	550		20
Zinc	mg/kg	---	95	5100		65
pH			6.25	9		8.16
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.34
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-3-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.38
Cadmium, TCLP	mg/L	---	---	---		<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050
Silver, TCLP	mg/L	---	---	---		<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		200
Cobalt, TCLP	mg/L	---	---	---		<0.025
Copper, TCLP	mg/L	---	---	---		0.015
Cyanide, TCLP	mg/L	---	---	---		---
Iron, TCLP	mg/L	---	---	---		<0.40
Magnesium, TCLP	mg/L	---	---	---		110
Manganese, TCLP	mg/L	---	---	---		0.18
Nickel, TCLP	mg/L	---	---	---		<0.025
Potassium, TCLP	mg/L	---	---	---		1.4
Sodium, TCLP	mg/L	---	---	---		---
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		0.073

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108249-1  
Client Project/Site: IDOT - LaGrange - WO 015

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

Attn: Mr. Matthew Weiss



Authorized for release by:  
3/15/2016 2:12:06 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

**Job ID: 500-108249-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108249-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

#### GC/MS VOA

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

#### GC/MS Semi VOA

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

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-3-B01 (2.5-7.5) (500-108249-1) and (500-108249-F-18-G) were non-detects for Cadmium, therefore the data has been reported..

Method(s) 6020A: The initial calibration verification low level (ICVL) result for batch 500-326398 was above the upper control limit for Antimony. The bracketing CCVL were within control limits. Sample results were non-detects, and have been reported as qualified data.

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

**Client Sample ID: 2633-3-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	57		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.047	J	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7600		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	7000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	45		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.83		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	3700		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	200		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.073	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.080		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.16		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-1	2633-3-B01 (2.5-7.5)	Solid	03/02/16 08:50	03/03/16 09:15

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

**Client Sample ID: 2633-3-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-1**

**Date Collected: 03/02/16 08:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	03/03/16 12:55	03/04/16 13:12	1
Dibromofluoromethane	112		75 - 120	03/03/16 12:55	03/04/16 13:12	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	03/03/16 12:55	03/04/16 13:12	1
Toluene-d8 (Surr)	106		75 - 122	03/03/16 12:55	03/04/16 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

**Client Sample ID: 2633-3-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-1**

**Date Collected: 03/02/16 08:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Benzo[g,h,i]perylene	<0.039	F1	0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Bis(2-chloroethyl)ether	<0.20	F2	0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

**Client Sample ID: 2633-3-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-1**

**Date Collected: 03/02/16 08:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Phenol	<0.20	F1 F2	0.20	0.088	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		25 - 119	03/05/16 17:18	03/07/16 15:04	1
2-Fluorophenol	103		25 - 110	03/05/16 17:18	03/07/16 15:04	1
Nitrobenzene-d5	92		25 - 115	03/05/16 17:18	03/07/16 15:04	1
Phenol-d5	89		31 - 110	03/05/16 17:18	03/07/16 15:04	1
Terphenyl-d14	127		36 - 134	03/05/16 17:18	03/07/16 15:04	1
2,4,6-Tribromophenol	71		35 - 137	03/05/16 17:18	03/07/16 15:04	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Arsenic</b>	<b>8.3</b>		0.58	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Barium</b>	<b>57</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Beryllium</b>	<b>0.75</b>		0.23	0.050	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Cadmium</b>	<b>0.047</b>	<b>J</b>	0.12	0.033	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Chromium</b>	<b>20</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Cobalt</b>	<b>17</b>		0.29	0.065	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Copper</b>	<b>29</b>		0.58	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Iron</b>	<b>22000</b>		12	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Lead</b>	<b>17</b>		0.29	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Magnesium</b>	<b>7600</b>		5.8	2.3	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Calcium</b>	<b>7000</b>	<b>B</b>	12	3.7	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Manganese</b>	<b>520</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Nickel</b>	<b>45</b>		0.58	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Selenium</b>	<b>0.83</b>		0.58	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Thallium</b>	<b>0.68</b>		0.58	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Vanadium</b>	<b>20</b>		0.29	0.084	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Zinc</b>	<b>65</b>		1.2	0.37	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Potassium</b>	<b>1500</b>		29	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1
<b>Sodium</b>	<b>3700</b>		58	7.6	mg/Kg	☼	03/04/16 15:32	03/05/16 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 03:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 03:33	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 03:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

**Client Sample ID: 2633-3-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-1**

**Date Collected: 03/02/16 08:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>200</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 03:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 03:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 03:33	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:33	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
<b>Potassium</b>	<b>1.4</b>	<b>J</b>	2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 03:33	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:33	1
<b>Zinc</b>	<b>0.073</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.34</b>	<b>F1</b>	0.025	0.010	mg/L		03/07/16 08:45	03/09/16 02:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:01	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:03	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.080</b>		0.020	0.011	mg/Kg	☼	03/04/16 12:35	03/07/16 09:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/06/16 16:50	03/06/16 21:35	1
<b>pH</b>	<b>8.16</b>		0.200	0.200	SU			03/05/16 09:57	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-1

## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60  
Phone: 708.634.5200 Fax: 708.634



500-108249 COC

Report To (optional)

Contact: Matt Weiss  
Company: Terracon  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: 630-717-4263  
Fax: 630-357-9489  
E-Mail: matt.weiss@terracon.com

Bill To (optional)

Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108249

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: 21, 31, 33, 21

Client		Client Project #		Preservative															
Project Name		1157115																	
Project Location/State		Lab Project #		Parameter															
<u>Labarge, IL</u>																			
Sampler		Lab PM																	
<u>CTK</u>																			
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 23 Inorganics	Turb 23 Inorganics	pH	SPLP 23 Inorganics	Preservative Key		Comments				
			Date	Time									1. HCL, Cool to 4°	2. H2SO4, Cool to 4°	3. HNO3, Cool to 4°	4. NaOH, Cool to 4°	5. NaOH/Zn, Cool to 4°	6. NaHSO4	7. Cool to 4°
<u>1</u>		<u>2633-3-B01 (2.5-7.5)</u>	<u>3/2/16</u>	<u>9:50</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<u>HOLD SPLP Analysis</u>		

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/3/16</u>	Time <u>820</u>	Received By <u>Dave Beden</u>	Company <u>TA</u>	Date <u>3/3/16</u>	Time <u>0828</u>
Relinquished By <u>Dave Beden</u>	Company <u>TA</u>	Date <u>3/3/16</u>	Time <u>0915</u>	Received By <u>Shawn Scott</u>	Company <u>TA-CTK</u>	Date <u>3/3/16</u>	Time <u>0915</u>
Relinquished By 	Company 	Date 	Time 	Received By 	Company 	Date 	Time 

Lab Courier	<u>TA</u>
Shipped	
Hand Delivered	

Matrix Key

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

Client Comments: Matt IL TACO requirements & Please HOLD SPLP Analysis. Thank you.

Lab Comments: \_\_\_\_\_



## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-1

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

LaGrange Road (near US 34 and LaGrange Road intersection) from IDOT STA 502+92 to 503+13 (ISGS Site 2633-5)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B01 was sampled adjacent to ISGS Site No 2633-5.  
See Exhibits 2, 2A, and Table 3 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108249-2. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-5-B01 (0-5)	2633-5-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
<b>Semivolatile Organic Analytical Parameters</b>							
Chrysene	mg/kg	1.2	2.7	88		<0.039	0.015
Phenanthrene	mg/kg	1.3	2.5	210		<0.039	0.02
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		7.7	5.7
Barium	mg/kg	---	110	1500		63	36
Cadmium	mg/kg	---	0.6	5.2		<0.12	<0.11
Chromium, total	mg/kg	---	16.2	21		20	16
Lead	mg/kg	---	36	107		15	15
Mercury	mg/kg	---	0.06	0.1		0.046	0.038
Selenium	mg/kg	---	0.48	1.3		0.66	0.46
Silver	mg/kg	---	0.55	4.4		<0.30	<0.27
Antimony	mg/kg	---	4.0	5		<1.2	<1.1
Beryllium	mg/kg	---	0.59	22		0.74	0.58
Calcium	mg/kg	---	9,300	---		65000	70000
Cobalt	mg/kg	---	8.9	20		14	11
Copper	mg/kg	---	19.6	2900		24	23
Cyanide	mg/kg	---	0.51	---		<0.60	<0.50
Iron	mg/kg	---	15,900	15000		20000	17000
Magnesium	mg/kg	---	4,820	325000		20000	23000
Manganese	mg/kg	---	636	630		350	330
Nickel	mg/kg	---	18	100		37	31
Potassium	mg/kg	---	1,268	---		2200	2000
Sodium	mg/kg	---	130	---		2200	740
Thallium	mg/kg	---	0.32	2.6		0.29	0.56
Vanadium	mg/kg	---	25.2	550		22	17
Zinc	mg/kg	---	95	5100		55	48
pH			6.25	9		8.37	8.41
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.12	0.29
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-5-B01 (0-5)	2633-5-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.48	0.27
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		390	550
Cobalt, TCLP	mg/L	---	---	---		<0.025	<0.025
Copper, TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide, TCLP	mg/L	---	---	---		---	---
Iron, TCLP	mg/L	---	---	---		0.78	<0.40
Magnesium, TCLP	mg/L	---	---	---		70	29
Manganese, TCLP	mg/L	---	---	---		0.21	0.68
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		1.7	2.7
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.14	0.077

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108249-2

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/15/2016 2:12:59 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

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**Job ID: 500-108249-2**

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**Laboratory: TestAmerica Chicago**

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## Narrative

**Job Narrative  
500-108249-2**

### Comments

No additional comments.

### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-5-B01 (0-5) (500-108249-2), 2633-5-B01 (5-10) (500-108249-3) and (500-108249-F-18-G) were non-detects for Cadmium, therefore the data has been reported..

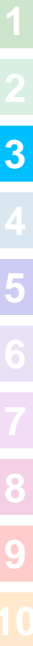
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

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

### Organic Prep

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





# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (0-5)**

**Lab Sample ID: 500-108249-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.78		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	70		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.37		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-5-B01 (5-10)**

**Lab Sample ID: 500-108249-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.015	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.020	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.56		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (5-10) (Continued)**

**Lab Sample ID: 500-108249-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2000		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	740		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	29		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.68		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.077	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.41		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-2	2633-5-B01 (0-5)	Solid	03/02/16 09:10	03/03/16 09:15
500-108249-3	2633-5-B01 (5-10)	Solid	03/02/16 09:15	03/03/16 09:15

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (0-5)**

**Lab Sample ID: 500-108249-2**

**Date Collected: 03/02/16 09:10**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/03/16 12:55	03/04/16 13:37	1
Dibromofluoromethane	100		75 - 120	03/03/16 12:55	03/04/16 13:37	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/03/16 12:55	03/04/16 13:37	1
Toluene-d8 (Surr)	107		75 - 122	03/03/16 12:55	03/04/16 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (0-5)**

**Lab Sample ID: 500-108249-2**

**Date Collected: 03/02/16 09:10**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (0-5)**

**Lab Sample ID: 500-108249-2**

**Date Collected: 03/02/16 09:10**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Pentachlorophenol	<0.79		0.79	0.62	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	03/05/16 17:18	03/07/16 15:28	1
2-Fluorophenol	72		25 - 110	03/05/16 17:18	03/07/16 15:28	1
Nitrobenzene-d5	93		25 - 115	03/05/16 17:18	03/07/16 15:28	1
Phenol-d5	58		31 - 110	03/05/16 17:18	03/07/16 15:28	1
Terphenyl-d14	105		36 - 134	03/05/16 17:18	03/07/16 15:28	1
2,4,6-Tribromophenol	56		35 - 137	03/05/16 17:18	03/07/16 15:28	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Arsenic</b>	<b>7.7</b>		0.60	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Barium</b>	<b>63</b>		0.60	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Beryllium</b>	<b>0.74</b>		0.24	0.052	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Chromium</b>	<b>20</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Cobalt</b>	<b>14</b>		0.30	0.067	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Copper</b>	<b>24</b>		0.60	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Iron</b>	<b>20000</b>		12	4.6	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Lead</b>	<b>15</b>		0.30	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Magnesium</b>	<b>20000</b>		6.0	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Calcium</b>	<b>65000</b>	<b>B</b>	120	38	mg/Kg	☼	03/04/16 15:32	03/05/16 21:37	10
<b>Manganese</b>	<b>350</b>		0.60	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Nickel</b>	<b>37</b>		0.60	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Selenium</b>	<b>0.66</b>		0.60	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Thallium</b>	<b>0.29</b>	<b>J</b>	0.60	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Vanadium</b>	<b>22</b>		0.30	0.087	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Zinc</b>	<b>55</b>		1.2	0.38	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Potassium</b>	<b>2200</b>		30	4.9	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1
<b>Sodium</b>	<b>2200</b>		60	7.9	mg/Kg	☼	03/04/16 15:32	03/05/16 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 03:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 03:40	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 03:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (0-5)**

**Lab Sample ID: 500-108249-2**

**Date Collected: 03/02/16 09:10**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>390</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 03:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
<b>Iron</b>	<b>0.78</b>		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 03:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 03:40	1
<b>Magnesium</b>	<b>70</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:40	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
<b>Potassium</b>	<b>1.7 J</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 03:40	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:40	1
<b>Zinc</b>	<b>0.14 J B</b>		0.50	0.020	mg/L		03/07/16 08:47	03/08/16 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:02	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.046</b>		0.018	0.0093	mg/Kg	☼	03/04/16 12:35	03/07/16 10:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	03/06/16 16:50	03/06/16 21:36	1
<b>pH</b>	<b>8.37</b>		0.200	0.200	SU			03/05/16 09:59	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (5-10)**

**Lab Sample ID: 500-108249-3**

**Date Collected: 03/02/16 09:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/03/16 12:55	03/04/16 14:02	1
Dibromofluoromethane	102		75 - 120	03/03/16 12:55	03/04/16 14:02	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	03/03/16 12:55	03/04/16 14:02	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/04/16 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (5-10)**

**Lab Sample ID: 500-108249-3**

**Date Collected: 03/02/16 09:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
<b>Chrysene</b>	<b>0.015</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (5-10)**

**Lab Sample ID: 500-108249-3**

**Date Collected: 03/02/16 09:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
<b>Phenanthrene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		25 - 119	03/05/16 17:18	03/07/16 15:51	1
2-Fluorophenol	90		25 - 110	03/05/16 17:18	03/07/16 15:51	1
Nitrobenzene-d5	87		25 - 115	03/05/16 17:18	03/07/16 15:51	1
Phenol-d5	69		31 - 110	03/05/16 17:18	03/07/16 15:51	1
Terphenyl-d14	111		36 - 134	03/05/16 17:18	03/07/16 15:51	1
2,4,6-Tribromophenol	44		35 - 137	03/05/16 17:18	03/07/16 15:51	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Arsenic</b>	<b>5.7</b>		0.55	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Barium</b>	<b>36</b>		0.55	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Beryllium</b>	<b>0.58</b>		0.22	0.047	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.55	0.094	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Cobalt</b>	<b>11</b>		0.27	0.062	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Copper</b>	<b>23</b>		0.55	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Iron</b>	<b>17000</b>		11	4.2	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Lead</b>	<b>15</b>		0.27	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Magnesium</b>	<b>23000</b>		5.5	2.2	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Calcium</b>	<b>70000</b>	<b>B</b>	110	35	mg/Kg	☼	03/04/16 15:32	03/05/16 21:42	10
<b>Manganese</b>	<b>330</b>		0.55	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Nickel</b>	<b>31</b>		0.55	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Thallium</b>	<b>0.56</b>		0.55	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Vanadium</b>	<b>17</b>		0.27	0.080	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Zinc</b>	<b>48</b>		1.1	0.35	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Potassium</b>	<b>2000</b>		27	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1
<b>Sodium</b>	<b>740</b>		55	7.2	mg/Kg	☼	03/04/16 15:32	03/05/16 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 03:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 03:47	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 03:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

**Client Sample ID: 2633-5-B01 (5-10)**

**Lab Sample ID: 500-108249-3**

**Date Collected: 03/02/16 09:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 03:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 03:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 03:47	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:47	1
<b>Manganese</b>	<b>0.68</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 03:47	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:47	1
<b>Zinc</b>	<b>0.077</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 03:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:03	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:10	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.019	0.0097	mg/Kg	☼	03/04/16 12:35	03/07/16 10:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	03/06/16 16:50	03/06/16 21:37	1
<b>pH</b>	<b>8.41</b>		0.200	0.200	SU			03/05/16 10:01	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

## Qualifiers

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-2

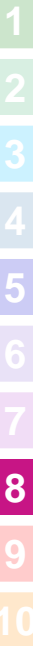
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-9263  
 Fax: 630-357-9989  
 E-Mail: Matt.Weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108249  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23 Inorganic		Total 23 Inorganic		pH		SPLP 23 Inorganic		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		
Project Location/State		Lab Project #		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		
Sampler		Lab PM		Matrix		Matrix		Matrix		Matrix		Matrix		Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total 23 Inorganic	Total 23 Inorganic	pH	SPLP 23 Inorganic	SPLP 23 Inorganic	Comments		
2		2633-5-001(0-5)	3/2/16	9:10	6	S	✓	✓	✓	✓	✓			HOLD SPLP		
3		2633-5-001(5-10)	3/2/16	9:15	6	S	✓	✓	✓	✓	✓			Analysis		

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>Chad Kelly</u> Company: <u>Terracon</u> Date: <u>3/2/16</u> Time: <u>820</u>	Received By <u>David Beckler</u> Company: <u>TA</u> Date: <u>3/3/16</u> Time: <u>0628</u>
Relinquished By <u>David Beckler</u> Company: <u>TA</u> Date: <u>3/3/16</u> Time: <u>0919</u>	Received By <u>Shawn Scott</u> Company: <u>TA-CHE</u> Date: <u>3/3/16</u> Time: <u>0915</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: met IL TAO requirements & please HOLD SPLP Analysis. Thank you.

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-2

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

Near US 34 and LaGrange Road intersection from IDOT STA 501+50 to 502+92 and 97+60 to 98+50 (ISGS Site 2633-6)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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



Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B01, B02, and B06 were sampled adjacent to ISGS Site No 2633-6. See Exhibits 2, 2B, and Table 5 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108249-3 and J108130-1. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/30/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B01 (0-5)	2633-6-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
<b>Volatile Organic Analytical Parameters</b>							
Acetone	mg/kg	---	---	25		<0.016	<0.018
<b>Semivolatile Organic Analytical Parameters</b>							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	<0.039
Chrysene	mg/kg	1.2	2.7	88		<0.038	0.012
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.038	0.0064
Pyrene	mg/kg	1.9	3.0	2300		<0.038	<0.039
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		7.3	9
Barium	mg/kg	---	110	1500		37	35
Cadmium	mg/kg	---	0.6	5.2		<0.12	<0.12
Chromium, total	mg/kg	---	16.2	21		17	16
Lead	mg/kg	---	36	107		14	15
Mercury	mg/kg	---	0.06	0.1		0.031	0.039
Selenium	mg/kg	---	0.48	1.3		0.34	0.36
Silver	mg/kg	---	0.55	4.4		<0.29	<0.30
Antimony	mg/kg	---	4.0	5		<1.2	<1.2
Beryllium	mg/kg	---	0.59	22		0.65	0.61
Calcium	mg/kg	---	9,300	---		76000	75000
Cobalt	mg/kg	---	8.9	20		12	9.2
Copper	mg/kg	---	19.6	2900		22	24
Cyanide	mg/kg	---	0.51	---		<0.56	<0.58
Iron	mg/kg	---	15,900	15000		18000	20000
Magnesium	mg/kg	---	4,820	325000		23000	24000
Manganese	mg/kg	---	636	630		310	320
Nickel	mg/kg	---	18	100		32	31
Potassium	mg/kg	---	1,268	---		2100	2000
Sodium	mg/kg	---	130	---		1500	610
Thallium	mg/kg	---	0.32	2.6		0.4	0.6
Vanadium	mg/kg	---	25.2	550		19	17
Zinc	mg/kg	---	95	5100		50	52
pH			6.25	9		8.62	8.21
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.59	0.27
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B01 (0-5)	2633-6-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.34	0.31
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		520	550
Cobalt, TCLP	mg/L	---	---	---		<0.025	<0.025
Copper, TCLP	mg/L	---	---	---		0.014	<0.025
Cyanide, TCLP	mg/L	---	---	---		---	---
Iron, TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium, TCLP	mg/L	---	---	---		17	29
Manganese, TCLP	mg/L	---	---	---		0.7	1
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		1.5	2.9
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.11	0.063

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B02 (0-5)	2633-6-B02 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
<b>Volatile Organic Analytical Parameters</b>							
Acetone	mg/kg	---	---	25		<0.018	<0.017
<b>Semivolatile Organic Analytical Parameters</b>							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039	<0.039
Chrysene	mg/kg	1.2	2.7	88		<0.039	0.015
Fluoranthene	mg/kg	2.7	4.1	3100		0.0083	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		<0.039	0.043
Pyrene	mg/kg	1.9	3.0	2300		0.0086	<0.039
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		8.1	4.9
Barium	mg/kg	---	110	1500		42	33
Cadmium	mg/kg	---	0.6	5.2		<0.11	<0.12
Chromium, total	mg/kg	---	16.2	21		18	17
Lead	mg/kg	---	36	107		17	15
Mercury	mg/kg	---	0.06	0.1		0.029	0.017
Selenium	mg/kg	---	0.48	1.3		0.5	0.96
Silver	mg/kg	---	0.55	4.4		<0.29	<0.30
Antimony	mg/kg	---	4.0	5		<1.1	<1.2
Beryllium	mg/kg	---	0.59	22		0.64	0.63
Calcium	mg/kg	---	9,300	---		57000	70000
Cobalt	mg/kg	---	8.9	20		14	13
Copper	mg/kg	---	19.6	2900		27	23
Cyanide	mg/kg	---	0.51	---		<0.50	<0.57
Iron	mg/kg	---	15,900	15000		20000	18000
Magnesium	mg/kg	---	4,820	325000		22000	22000
Manganese	mg/kg	---	636	630		420	370
Nickel	mg/kg	---	18	100		38	36
Potassium	mg/kg	---	1,268	---		2100	2000
Sodium	mg/kg	---	130	---		2500	1500
Thallium	mg/kg	---	0.32	2.6		0.32	<0.60
Vanadium	mg/kg	---	25.2	550		20	18
Zinc	mg/kg	---	95	5100		53	63
pH			6.25	9		8.66	8.42
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.37	2.1
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B02 (0-5)	2633-6-B02 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.44	0.3
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		330	500
Cobalt, TCLP	mg/L	---	---	---		0.016	0.011
Copper, TCLP	mg/L	---	---	---		0.01	0.016
Cyanide, TCLP	mg/L	---	---	---		---	---
Iron, TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium, TCLP	mg/L	---	---	---		59	45
Manganese, TCLP	mg/L	---	---	---		9.4	3.8
Nickel, TCLP	mg/L	---	---	---		0.017	0.014
Potassium, TCLP	mg/L	---	---	---		3.9	3.5
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.17	0.3

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B05 (0-4)	2633-6-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-4)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016	02/29/2016
<b>Volatile Organic Analytical Parameters</b>							
Acetone	mg/kg	---	---	25		0.02	0.021
<b>Semivolatile Organic Analytical Parameters</b>							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039	0.0062
Chrysene	mg/kg	1.2	2.7	88		<0.039	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		<0.039	0.012
Phenanthrene	mg/kg	1.3	2.5	210		<0.039	<0.040
Pyrene	mg/kg	1.9	3.0	2300		<0.039	0.0091
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		9.3	11
Barium	mg/kg	---	110	1500		81	61
Cadmium	mg/kg	---	0.6	5.2		<0.12	<0.12
Chromium, total	mg/kg	---	16.2	21		17	17
Lead	mg/kg	---	36	107		20	27
Mercury	mg/kg	---	0.06	0.1		0.027	0.04
Selenium	mg/kg	---	0.48	1.3		0.72	0.63
Silver	mg/kg	---	0.55	4.4		<0.29	<0.30
Antimony	mg/kg	---	4.0	5		<1.2	<1.2
Beryllium	mg/kg	---	0.59	22		0.76	0.7
Calcium	mg/kg	---	9,300	---		2600	1900
Cobalt	mg/kg	---	8.9	20		13	17
Copper	mg/kg	---	19.6	2900		23	34
Cyanide	mg/kg	---	0.51	---		<0.55	<0.56
Iron	mg/kg	---	15,900	15000		22000	23000
Magnesium	mg/kg	---	4,820	325000		2900	3000
Manganese	mg/kg	---	636	630		590	310
Nickel	mg/kg	---	18	100		26	37
Potassium	mg/kg	---	1,268	---		1500	1500
Sodium	mg/kg	---	130	---		720	610
Thallium	mg/kg	---	0.32	2.6		<0.59	0.66
Vanadium	mg/kg	---	25.2	550		27	24
Zinc	mg/kg	---	95	5100		57	65
pH			6.25	9		8.06	8.11
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		170	--
Lead,SPLP	mg/L	---	---	---		0.16	0.18
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		1.7	1.7
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B05 (0-4)	2633-6-B06 (0-5)
				CCDD	Sample Depth (feet)	(0-4)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016	02/29/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.55	0.55
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		0.01	0.018
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		58	72
Cobalt, TCLP	mg/L	---	---	---		0.05	0.063
Copper, TCLP	mg/L	---	---	---		<0.025	0.01
Cyanide, TCLP	mg/L	---	---	---		----	----
Iron, TCLP	mg/L	---	---	---		6.7	4.4
Magnesium, TCLP	mg/L	---	---	---		5.3	8
Manganese, TCLP	mg/L	---	---	---		8.9	18
Nickel, TCLP	mg/L	---	---	---		0.045	0.06
Potassium, TCLP	mg/L	---	---	---		16	16
Sodium, TCLP	mg/L	---	---	---		----	----
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.8	0.75

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B06 (5-10)
				CCDD	Sample Depth (feet)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016
<b>Volatile Organic Analytical Parameters</b>						
Acetone	mg/kg	---	---	25		<0.017
<b>Semivolatile Organic Analytical Parameters</b>						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.040
Chrysene	mg/kg	1.2	2.7	88		<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		<0.040
Phenanthrene	mg/kg	1.3	2.5	210		<0.040
Pyrene	mg/kg	1.9	3.0	2300		<0.040
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		6.6
Barium	mg/kg	---	110	1500		46
Cadmium	mg/kg	---	0.6	5.2		<0.11
Chromium, total	mg/kg	---	16.2	21		18
Lead	mg/kg	---	36	107		13
Mercury	mg/kg	---	0.06	0.1		0.017
Selenium	mg/kg	---	0.48	1.3		<0.57
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		<1.1
Beryllium	mg/kg	---	0.59	22		0.67
Calcium	mg/kg	---	9,300	---		34000
Cobalt	mg/kg	---	8.9	20		13
Copper	mg/kg	---	19.6	2900		22
Cyanide	mg/kg	---	0.51	---		<0.56
Iron	mg/kg	---	15,900	15000		19000
Magnesium	mg/kg	---	4,820	325000		22000
Manganese	mg/kg	---	636	630		370
Nickel	mg/kg	---	18	100		36
Potassium	mg/kg	---	1,268	---		2100
Sodium	mg/kg	---	130	---		560
Thallium	mg/kg	---	0.32	2.6		0.5
Vanadium	mg/kg	---	25.2	550		20
Zinc	mg/kg	---	95	5100		61
pH			6.25	9		8.43
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		2.2
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-6-B06 (5-10)
				CCDD	Sample Depth (feet)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.45
Cadmium, TCLP	mg/L	---	---	---		<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050
Silver, TCLP	mg/L	---	---	---		<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		350
Cobalt, TCLP	mg/L	---	---	---		0.014
Copper, TCLP	mg/L	---	---	---		<0.025
Cyanide, TCLP	mg/L	---	---	---		----
Iron, TCLP	mg/L	---	---	---		<0.40
Magnesium, TCLP	mg/L	---	---	---		80
Manganese, TCLP	mg/L	---	---	---		6.7
Nickel, TCLP	mg/L	---	---	---		0.013
Potassium, TCLP	mg/L	---	---	---		6.6
Sodium, TCLP	mg/L	---	---	---		----
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		0.49

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108249-3

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/15/2016 2:16:33 PM

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Job ID: 500-108249-3**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108249-3

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

#### GC/MS VOA

Method(s) 8260B: The following sample was diluted due to the abundance of target and/or non-target analytes: 2633-6-B03 (5-11) (500-108249-9). Elevated reporting limits (RLs) are provided.

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

#### GC/MS Semi VOA

Method(s) 8270D: The following sample contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2633-6-B03 (0-5) (500-108249-8). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-6-B01 (0-5) (500-108249-4), 2633-6-B01 (5-10) (500-108249-5), 2633-6-B02 (0-5) (500-108249-6), 2633-6-B02 (5-10) (500-108249-7), 2633-6-B03 (0-5) (500-108249-8) and 2633-6-B03 (5-11) (500-108249-9) were non-detects for Cadmium, therefore the data has been reported..

Method(s) 7470A: The continuing calibration blank (CCB) at line 88 in AD batch 500-326292 contained Hg greater than the reporting limit (RL). The samples associated with this CCB were non-detects for the affected analytes; therefore, the data has been qualified and reported.

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (0-5)**

**Lab Sample ID: 500-108249-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	17		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.70		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.62		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-6-B01 (5-10)**

**Lab Sample ID: 500-108249-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.012	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0064	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.0		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.60		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

## Client Sample ID: 2633-6-B01 (5-10) (Continued)

## Lab Sample ID: 500-108249-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	610		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	29		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.063	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-6-B02 (0-5)

## Lab Sample ID: 500-108249-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0083	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0086	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	9.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.66		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-6-B02 (5-10)

## Lab Sample ID: 500-108249-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

## Client Sample ID: 2633-6-B02 (5-10) (Continued)

## Lab Sample ID: 500-108249-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.043		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.9		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		6.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	120	39	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.96		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.30	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.42		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-6-B03 (0-5)

## Lab Sample ID: 500-108249-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	470	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.65		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.63		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

## Client Sample ID: 2633-6-B03 (0-5) (Continued)

## Lab Sample ID: 500-108249-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	78		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	15		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.029		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	9.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.070		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.20		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-6-B03 (5-11)

## Lab Sample ID: 500-108249-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.9		0.027	0.020	mg/Kg	100	☼	8260B	Total/NA
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0090	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0073	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.020	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	1.1		0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	1.1		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.041		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	37		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	28000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.88		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2200		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (5-11) (Continued)**

**Lab Sample ID: 500-108249-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	230		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.0098	mg/Kg	1	☆	7471B	Total/NA
pH	8.08		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-4	2633-6-B01 (0-5)	Solid	03/02/16 09:30	03/03/16 09:15
500-108249-5	2633-6-B01 (5-10)	Solid	03/02/16 09:35	03/03/16 09:15
500-108249-6	2633-6-B02 (0-5)	Solid	03/02/16 09:50	03/03/16 09:15
500-108249-7	2633-6-B02 (5-10)	Solid	03/02/16 09:55	03/03/16 09:15
500-108249-8	2633-6-B03 (0-5)	Solid	03/02/16 10:45	03/03/16 09:15
500-108249-9	2633-6-B03 (5-11)	Solid	03/02/16 10:50	03/03/16 09:15

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (0-5)**

**Lab Sample ID: 500-108249-4**

**Date Collected: 03/02/16 09:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/03/16 12:55	03/04/16 14:27	1
Dibromofluoromethane	106		75 - 120	03/03/16 12:55	03/04/16 14:27	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/03/16 12:55	03/04/16 14:27	1
Toluene-d8 (Surr)	106		75 - 122	03/03/16 12:55	03/04/16 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (0-5)**

**Lab Sample ID: 500-108249-4**

**Date Collected: 03/02/16 09:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (0-5)**

**Lab Sample ID: 500-108249-4**

**Date Collected: 03/02/16 09:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	03/05/16 17:18	03/07/16 16:14	1
2-Fluorophenol	81		25 - 110	03/05/16 17:18	03/07/16 16:14	1
Nitrobenzene-d5	86		25 - 115	03/05/16 17:18	03/07/16 16:14	1
Phenol-d5	62		31 - 110	03/05/16 17:18	03/07/16 16:14	1
Terphenyl-d14	120		36 - 134	03/05/16 17:18	03/07/16 16:14	1
2,4,6-Tribromophenol	59		35 - 137	03/05/16 17:18	03/07/16 16:14	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Arsenic</b>	<b>7.3</b>		0.59	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Barium</b>	<b>37</b>		0.59	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.051	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Chromium</b>	<b>17 B</b>		0.59	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Cobalt</b>	<b>12</b>		0.29	0.066	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Copper</b>	<b>22</b>		0.59	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Lead</b>	<b>14</b>		0.29	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Magnesium</b>	<b>23000</b>		5.9	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Calcium</b>	<b>76000 B</b>		120	38	mg/Kg	☼	03/04/16 15:32	03/05/16 21:46	10
<b>Manganese</b>	<b>310</b>		0.59	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Nickel</b>	<b>32</b>		0.59	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Selenium</b>	<b>0.34 J</b>		0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Thallium</b>	<b>0.40 J</b>		0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Vanadium</b>	<b>19</b>		0.29	0.085	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Zinc</b>	<b>50</b>		1.2	0.37	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Potassium</b>	<b>2100</b>		29	4.8	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1
<b>Sodium</b>	<b>1500</b>		59	7.7	mg/Kg	☼	03/04/16 15:32	03/05/16 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
<b>Barium</b>	<b>0.34 J</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 03:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 03:54	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 03:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (0-5)**

**Lab Sample ID: 500-108249-4**

**Date Collected: 03/02/16 09:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>520</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 03:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 03:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 03:54	1
<b>Magnesium</b>	<b>17</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:54	1
<b>Manganese</b>	<b>0.70</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
<b>Potassium</b>	<b>1.5</b>	<b>J</b>	2.5	0.50	mg/L		03/07/16 08:47	03/08/16 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 03:54	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 03:54	1
<b>Zinc</b>	<b>0.11</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 02:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:04	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:12	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.031</b>		0.018	0.0096	mg/Kg	☼	03/04/16 12:35	03/07/16 10:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/06/16 16:50	03/06/16 21:37	1
<b>pH</b>	<b>8.62</b>		0.200	0.200	SU			03/05/16 10:04	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (5-10)**

**Lab Sample ID: 500-108249-5**

**Date Collected: 03/02/16 09:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/03/16 12:55	03/04/16 14:52	1
Dibromofluoromethane	103		75 - 120	03/03/16 12:55	03/04/16 14:52	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/03/16 12:55	03/04/16 14:52	1
Toluene-d8 (Surr)	106		75 - 122	03/03/16 12:55	03/04/16 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (5-10)**

**Lab Sample ID: 500-108249-5**

**Date Collected: 03/02/16 09:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (5-10)**

**Lab Sample ID: 500-108249-5**

**Date Collected: 03/02/16 09:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
<b>Phenanthrene</b>	<b>0.0064</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	03/05/16 17:18	03/07/16 16:37	1
2-Fluorophenol	78		25 - 110	03/05/16 17:18	03/07/16 16:37	1
Nitrobenzene-d5	87		25 - 115	03/05/16 17:18	03/07/16 16:37	1
Phenol-d5	62		31 - 110	03/05/16 17:18	03/07/16 16:37	1
Terphenyl-d14	119		36 - 134	03/05/16 17:18	03/07/16 16:37	1
2,4,6-Tribromophenol	45		35 - 137	03/05/16 17:18	03/07/16 16:37	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Arsenic</b>	<b>9.0</b>		0.60	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Barium</b>	<b>35</b>		0.60	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Beryllium</b>	<b>0.61</b>		0.24	0.052	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Cobalt</b>	<b>9.2</b>		0.30	0.067	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Copper</b>	<b>24</b>		0.60	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Iron</b>	<b>20000</b>		12	4.6	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Lead</b>	<b>15</b>		0.30	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Magnesium</b>	<b>24000</b>		6.0	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Calcium</b>	<b>75000</b>	<b>B</b>	120	38	mg/Kg	☼	03/04/16 15:32	03/05/16 21:50	10
<b>Manganese</b>	<b>320</b>		0.60	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Nickel</b>	<b>31</b>		0.60	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Selenium</b>	<b>0.36</b>	<b>J</b>	0.60	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Thallium</b>	<b>0.60</b>		0.60	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Vanadium</b>	<b>17</b>		0.30	0.087	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Zinc</b>	<b>52</b>		1.2	0.38	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Potassium</b>	<b>2000</b>		30	4.9	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1
<b>Sodium</b>	<b>610</b>		60	7.9	mg/Kg	☼	03/04/16 15:32	03/05/16 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 04:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 04:00	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 04:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B01 (5-10)**

**Lab Sample ID: 500-108249-5**

**Date Collected: 03/02/16 09:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 04:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 04:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 04:00	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:00	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 04:00	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:00	1
<b>Zinc</b>	<b>0.063</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 02:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:05	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 15:06	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.039</b>		0.017	0.0091	mg/Kg	☼	03/04/16 12:35	03/07/16 10:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/06/16 16:50	03/06/16 21:37	1
<b>pH</b>	<b>8.21</b>		0.200	0.200	SU			03/05/16 10:06	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (0-5)**

**Lab Sample ID: 500-108249-6**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/03/16 12:55	03/04/16 15:17	1
Dibromofluoromethane	103		75 - 120	03/03/16 12:55	03/04/16 15:17	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	03/03/16 12:55	03/04/16 15:17	1
Toluene-d8 (Surr)	106		75 - 122	03/03/16 12:55	03/04/16 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (0-5)**

**Lab Sample ID: 500-108249-6**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
<b>Fluoranthene</b>	<b>0.0083</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (0-5)**

**Lab Sample ID: 500-108249-6**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
<b>Pyrene</b>	<b>0.0086</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,4,5-Trichlorophenol	<0.39		0.39	0.088	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	03/05/16 17:18	03/07/16 17:00	1
2-Fluorophenol	78		25 - 110	03/05/16 17:18	03/07/16 17:00	1
Nitrobenzene-d5	82		25 - 115	03/05/16 17:18	03/07/16 17:00	1
Phenol-d5	63		31 - 110	03/05/16 17:18	03/07/16 17:00	1
Terphenyl-d14	132		36 - 134	03/05/16 17:18	03/07/16 17:00	1
2,4,6-Tribromophenol	58		35 - 137	03/05/16 17:18	03/07/16 17:00	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Arsenic</b>	<b>8.1</b>		0.57	0.26	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Barium</b>	<b>42</b>		0.57	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Beryllium</b>	<b>0.64</b>		0.23	0.049	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Cobalt</b>	<b>14</b>		0.29	0.065	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Copper</b>	<b>27</b>		0.57	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Iron</b>	<b>20000</b>		11	4.4	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Lead</b>	<b>17</b>		0.29	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Magnesium</b>	<b>22000</b>		5.7	2.3	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Calcium</b>	<b>57000</b>	<b>B</b>	110	37	mg/Kg	☼	03/04/16 15:32	03/05/16 21:54	10
<b>Manganese</b>	<b>420</b>		0.57	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Nickel</b>	<b>38</b>		0.57	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Selenium</b>	<b>0.50</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Thallium</b>	<b>0.32</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Vanadium</b>	<b>20</b>		0.29	0.083	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Zinc</b>	<b>53</b>		1.1	0.36	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Potassium</b>	<b>2100</b>		29	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1
<b>Sodium</b>	<b>2500</b>		57	7.5	mg/Kg	☼	03/04/16 15:32	03/05/16 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 04:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 04:07	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 04:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (0-5)**

**Lab Sample ID: 500-108249-6**

**Date Collected: 03/02/16 09:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 04:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 04:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Magnesium</b>	<b>59</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Manganese</b>	<b>9.4</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Potassium</b>	<b>3.9</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 04:07	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:07	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.37</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:06	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:53	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.018	0.0096	mg/Kg	☼	03/04/16 12:35	03/07/16 10:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	03/06/16 16:50	03/06/16 21:37	1
<b>pH</b>	<b>8.66</b>		0.200	0.200	SU			03/05/16 10:09	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (5-10)**

**Lab Sample ID: 500-108249-7**

**Date Collected: 03/02/16 09:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/03/16 12:55	03/04/16 15:42	1
Dibromofluoromethane	104		75 - 120	03/03/16 12:55	03/04/16 15:42	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/03/16 12:55	03/04/16 15:42	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/04/16 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (5-10)**

**Lab Sample ID: 500-108249-7**

**Date Collected: 03/02/16 09:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
<b>Chrysene</b>	<b>0.015</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (5-10)**

**Lab Sample ID: 500-108249-7**

**Date Collected: 03/02/16 09:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
<b>Phenanthrene</b>	<b>0.043</b>		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		25 - 119	03/05/16 17:18	03/07/16 17:24	1
2-Fluorophenol	89		25 - 110	03/05/16 17:18	03/07/16 17:24	1
Nitrobenzene-d5	99		25 - 115	03/05/16 17:18	03/07/16 17:24	1
Phenol-d5	72		31 - 110	03/05/16 17:18	03/07/16 17:24	1
Terphenyl-d14	134		36 - 134	03/05/16 17:18	03/07/16 17:24	1
2,4,6-Tribromophenol	68		35 - 137	03/05/16 17:18	03/07/16 17:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Arsenic</b>	<b>4.9</b>		0.60	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Barium</b>	<b>33</b>		0.60	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Beryllium</b>	<b>0.63</b>		0.24	0.052	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Cobalt</b>	<b>13</b>		0.30	0.068	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Copper</b>	<b>23</b>		0.60	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Iron</b>	<b>18000</b>		12	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Lead</b>	<b>15</b>		0.30	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Magnesium</b>	<b>22000</b>		6.0	2.5	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Calcium</b>	<b>70000</b>	<b>B</b>	120	39	mg/Kg	☼	03/04/16 15:32	03/05/16 21:58	10
<b>Manganese</b>	<b>370</b>		0.60	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Nickel</b>	<b>36</b>		0.60	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Selenium</b>	<b>0.96</b>		0.60	0.30	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Vanadium</b>	<b>18</b>		0.30	0.088	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Zinc</b>	<b>63</b>		1.2	0.38	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Potassium</b>	<b>2000</b>		30	4.9	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1
<b>Sodium</b>	<b>1500</b>		60	8.0	mg/Kg	☼	03/04/16 15:32	03/05/16 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 04:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 04:14	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 04:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B02 (5-10)**

**Lab Sample ID: 500-108249-7**

**Date Collected: 03/02/16 09:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 04:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
Copper	0.016	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 04:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 04:14	1
Magnesium	45		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:14	1
Manganese	3.8		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
Nickel	0.014	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
Potassium	3.5		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 04:14	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:14	1
Zinc	0.30	J B	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 04:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.1		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 03:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:07	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 15:09	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.010	mg/Kg	☼	03/04/16 12:35	03/07/16 10:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/06/16 16:50	03/06/16 21:38	1
pH	8.42		0.200	0.200	SU			03/05/16 10:11	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (0-5)**

**Lab Sample ID: 500-108249-8**

**Date Collected: 03/02/16 10:45**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/03/16 12:55	03/04/16 16:08	1
Dibromofluoromethane	107		75 - 120	03/03/16 12:55	03/04/16 16:08	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/03/16 12:55	03/04/16 16:08	1
Toluene-d8 (Surr)	107		75 - 122	03/03/16 12:55	03/04/16 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (0-5)**

**Lab Sample ID: 500-108249-8**

**Date Collected: 03/02/16 10:45**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (0-5)**

**Lab Sample ID: 500-108249-8**

**Date Collected: 03/02/16 10:45**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	03/05/16 17:18	03/07/16 17:47	1
2-Fluorophenol	86		25 - 110	03/05/16 17:18	03/07/16 17:47	1
Nitrobenzene-d5	94		25 - 115	03/05/16 17:18	03/07/16 17:47	1
Phenol-d5	51		31 - 110	03/05/16 17:18	03/07/16 17:47	1
Terphenyl-d14	140	X	36 - 134	03/05/16 17:18	03/07/16 17:47	1
2,4,6-Tribromophenol	64		35 - 137	03/05/16 17:18	03/07/16 17:47	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Arsenic</b>	<b>9.8</b>		0.59	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Barium</b>	<b>37</b>		0.59	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Beryllium</b>	<b>0.62</b>		0.24	0.051	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Chromium</b>	<b>13</b>	<b>B</b>	0.59	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Cobalt</b>	<b>14</b>		0.29	0.067	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Copper</b>	<b>32</b>		0.59	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Lead</b>	<b>22</b>		0.29	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Magnesium</b>	<b>2200</b>		5.9	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Calcium</b>	<b>470</b>	<b>B</b>	12	3.8	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Manganese</b>	<b>370</b>		0.59	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Nickel</b>	<b>37</b>		0.59	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Selenium</b>	<b>0.65</b>		0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Thallium</b>	<b>0.63</b>		0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Vanadium</b>	<b>16</b>		0.29	0.086	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Zinc</b>	<b>78</b>		1.2	0.37	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Potassium</b>	<b>1500</b>		29	4.8	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1
<b>Sodium</b>	<b>1800</b>		59	7.8	mg/Kg	☼	03/04/16 15:32	03/05/16 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 04:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 04:21	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 04:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (0-5)**

**Lab Sample ID: 500-108249-8**

**Date Collected: 03/02/16 10:45**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 04:21	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
Cobalt	0.017	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
Copper	0.028		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 04:21	1
Lead	0.029		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 04:21	1
Magnesium	1.5	J	2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:21	1
Manganese	11		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
Nickel	0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
Potassium	9.1		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:21	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 04:21	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:21	1
Zinc	0.16	J B	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 04:21	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20		0.0075	0.0075	mg/L		03/07/16 08:45	03/09/16 03:33	1
Manganese	2.0		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:08	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:23	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.020	0.010	mg/Kg	☼	03/04/16 12:35	03/07/16 10:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	03/06/16 16:50	03/06/16 21:38	1
pH	8.20		0.200	0.200	SU			03/05/16 10:14	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (5-11)**

**Lab Sample ID: 500-108249-9**

**Date Collected: 03/02/16 10:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.54		0.54	0.19	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Benzene	<0.027		0.027	0.016	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Bromodichloromethane	<0.11		0.11	0.040	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Bromoform	<0.11		0.11	0.052	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Bromomethane	<0.22		0.22	0.086	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
2-Butanone (MEK)	<0.54		0.54	0.23	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Carbon disulfide	<0.22		0.22	0.087	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Carbon tetrachloride	<0.11		0.11	0.042	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Chlorobenzene	<0.11		0.11	0.042	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Chloroethane	<0.11		0.11	0.055	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Chloroform	<0.11		0.11	0.040	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Chloromethane	<0.11		0.11	0.035	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
cis-1,2-Dichloroethene	<0.11		0.11	0.044	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
cis-1,3-Dichloropropene	<0.11		0.11	0.045	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Dibromochloromethane	<0.11		0.11	0.053	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,1-Dichloroethane	<0.11		0.11	0.044	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,2-Dichloroethane	<0.11		0.11	0.042	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,1-Dichloroethene	<0.11		0.11	0.042	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,2-Dichloropropane	<0.11		0.11	0.046	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,3-Dichloropropene, Total	<0.11		0.11	0.045	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
<b>Ethylbenzene</b>	<b>3.9</b>		0.027	0.020	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
2-Hexanone	<0.54		0.54	0.17	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Methylene Chloride	<0.54		0.54	0.18	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
4-Methyl-2-pentanone (MIBK)	<0.54		0.54	0.23	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Methyl tert-butyl ether	<0.11		0.11	0.043	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Styrene	<0.11		0.11	0.042	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,1,2,2-Tetrachloroethane	<0.11		0.11	0.043	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Tetrachloroethene	<0.11		0.11	0.040	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Toluene	<0.027		0.027	0.016	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
trans-1,2-Dichloroethene	<0.11		0.11	0.038	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
trans-1,3-Dichloropropene	<0.11		0.11	0.039	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,1,1-Trichloroethane	<0.11		0.11	0.041	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
1,1,2-Trichloroethane	<0.11		0.11	0.038	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Trichloroethene	<0.054		0.054	0.018	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Vinyl acetate	<0.22		0.22	0.098	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Vinyl chloride	<0.054		0.054	0.028	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100
Xylenes, Total	<0.054		0.054	0.024	mg/Kg	☼	03/02/16 10:50	03/09/16 15:36	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 120	03/02/16 10:50	03/09/16 15:36	100
Dibromofluoromethane	97		75 - 120	03/02/16 10:50	03/09/16 15:36	100
1,2-Dichloroethane-d4 (Surr)	98		75 - 125	03/02/16 10:50	03/09/16 15:36	100
Toluene-d8 (Surr)	102		75 - 120	03/02/16 10:50	03/09/16 15:36	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>Acenaphthylene</b>	<b>0.0090</b>	<b>J</b>	0.039	0.0051	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>Benzo[a]anthracene</b>	<b>0.0073</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (5-11)**

**Lab Sample ID: 500-108249-9**

**Date Collected: 03/02/16 10:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>Fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>Fluorene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>2-Methylnaphthalene</b>	<b>1.1</b>		0.039	0.0071	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>Naphthalene</b>	<b>1.1</b>		0.039	0.0060	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (5-11)**

**Lab Sample ID: 500-108249-9**

**Date Collected: 03/02/16 10:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>Phenanthrene</b>	<b>0.041</b>		0.039	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
<b>Pyrene</b>	<b>0.021</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	03/05/16 17:18	03/07/16 18:33	1
2-Fluorophenol	67		25 - 110	03/05/16 17:18	03/07/16 18:33	1
Nitrobenzene-d5	66		25 - 115	03/05/16 17:18	03/07/16 18:33	1
Phenol-d5	41		31 - 110	03/05/16 17:18	03/07/16 18:33	1
Terphenyl-d14	126		36 - 134	03/05/16 17:18	03/07/16 18:33	1
2,4,6-Tribromophenol	66		35 - 137	03/05/16 17:18	03/07/16 18:33	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Arsenic</b>	<b>12</b>		0.57	0.26	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Barium</b>	<b>33</b>		0.57	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Beryllium</b>	<b>0.52</b>		0.23	0.049	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Chromium</b>	<b>13</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Cobalt</b>	<b>14</b>		0.29	0.065	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Copper</b>	<b>37</b>		0.57	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Iron</b>	<b>21000</b>		11	4.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Lead</b>	<b>23</b>		0.29	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Magnesium</b>	<b>20000</b>		5.7	2.3	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Calcium</b>	<b>28000</b>	<b>B</b>	11	3.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Manganese</b>	<b>410</b>		0.57	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Nickel</b>	<b>36</b>		0.57	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Selenium</b>	<b>0.88</b>		0.57	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Thallium</b>	<b>1.0</b>		0.57	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Vanadium</b>	<b>15</b>		0.29	0.083	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Zinc</b>	<b>61</b>		1.1	0.36	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Potassium</b>	<b>1600</b>		29	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1
<b>Sodium</b>	<b>2200</b>		57	7.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 04:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 04:43	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 04:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

**Client Sample ID: 2633-6-B03 (5-11)**

**Lab Sample ID: 500-108249-9**

**Date Collected: 03/02/16 10:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>230</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 04:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Copper</b>	<b>0.043</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 04:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Manganese</b>	<b>11</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Potassium</b>	<b>6.5</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 04:43	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:43	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 04:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:09	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:57	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.036</b>		0.019	0.0098	mg/Kg	☼	03/04/16 12:35	03/07/16 10:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/06/16 16:50	03/06/16 21:38	1
<b>pH</b>	<b>8.08</b>		0.200	0.200	SU			03/05/16 10:16	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

## Qualifiers

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-3

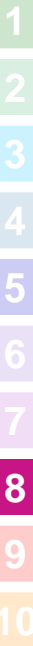
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-357-9489  
 E-Mail: Matt.Weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108249  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23		TCLP 23		pH		SPLP 23		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Matrix		VOCs		Inorganics		Inorganics						
Project Location/State		Lab PM		# of Containers												
Lab ID	M/S/MSD	Sample ID	Date	Time												Comments
4		2633-6-B01 (0-5)	3/2/16	9:30	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	HOLD SPLP
5		2633-6-B01 (5-10)	3/2/16	9:35	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	Analysis
6		2633-6-B02 (0-5)	3/2/16	9:50	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7		2633-6-B02 (5-10)	3/2/16	9:55	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8		2633-6-B03 (0-5)	3/2/16	10:45	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9		2633-6-B03 (5-11)	3/2/16	10:50	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/3/16</u>	Time <u>820</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3/3/16</u>	Time <u>0828</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-3-16</u>	Time <u>0915</u>	Received By <u>Shirley</u>	Company <u>TA-CRT</u>	Date <u>3/3/16</u>	Time <u>0915</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: met IL TAO Requirements & please hold SPLP Analysis, Thank you.

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-3

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108130-1

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

3/11/2016 4:32:08 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

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**Job ID: 500-108130-1**

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**Laboratory: TestAmerica Chicago**

## Narrative

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**Job Narrative**  
**500-108130-1**

### Comments

No additional comments.

### Receipt

The samples were received on 3/1/2016 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 3.1° C.

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Method(s) 6020A: The initial calibration verification low level (ICVL) result for batch 500-326398 was above the upper control limit for Antimony. The bracketing CCVL were within control limits. Sample results were non-detects, and have been reported as qualified data.

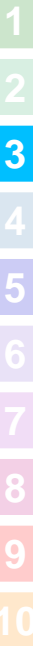
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

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

### Organic Prep

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



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5)**

**Lab Sample ID: 500-108130-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.018	0.0035	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0054		0.0045	0.0016	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.051		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.061		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.091		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.057		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.064		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.095		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.057		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.050		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.083		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.8	F1	0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	70	F1	0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.049	J F1	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	28		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	460		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J F1	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	76	F1	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600	B F1	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	340	F1	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	36		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	9.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.034	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.089		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	9.55		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-6-B04 (0-5) Dup**

**Lab Sample ID: 500-108130-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019		0.018	0.0036	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0029	J	0.0046	0.0016	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0076	J	0.041	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.051		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.056		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5) Dup (Continued)**

**Lab Sample ID: 500-108130-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.088		0.041	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.039	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.034	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.065		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0083	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.046		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.059		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.091		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	46000		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000		120	40	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600	B	31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Arsenic	0.010	J	0.050	0.010	mg/L	1		6010B	TCLP
Barium	0.85		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	24		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	11		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.050	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.91		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.053		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	9.85		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-6-B04 (5-10)**

**Lab Sample ID: 500-108130-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

## Client Sample ID: 2633-6-B04 (5-10) (Continued)

## Lab Sample ID: 500-108130-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	22000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	230		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.33	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	590		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	39		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.073	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.058		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.88		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-6-B04 (10-15)

## Lab Sample ID: 500-108130-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.012	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0084	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.086	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	280		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.44	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900	B	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	580		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

## Client Sample ID: 2633-6-B04 (10-15) (Continued)

## Lab Sample ID: 500-108130-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	5.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.086	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.69		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-6-B05 (0-4)

## Lab Sample ID: 500-108130-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.017	0.0034	mg/Kg	1	☼	8260B	Total/NA
Arsenic	9.3		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2900		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	2600		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.72		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	720		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	58		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Iron	6.7		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	5.3		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	16		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.80	B	0.50	0.020	mg/L	1		6010B	TCLP
Iron	170		0.40	0.20	mg/L	1		6010B	SPLP East
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-6-B06 (0-5)

## Lab Sample ID: 500-108130-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021		0.017	0.0033	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0062	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0091	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (0-5) (Continued)**

**Lab Sample ID: 500-108130-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	61		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	1900		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	610		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	72		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.063		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	4.4		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.018		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	8.0		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	18		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.060		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	16		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.75	B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.11		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-6-B06 (5-10)**

**Lab Sample ID: 500-108130-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	34000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.50	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (5-10) (Continued)**

**Lab Sample ID: 500-108130-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	560		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	80		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.49	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108130-1	2633-6-B04 (0-5)	Solid	02/29/16 10:00	03/01/16 10:05
500-108130-2	2633-6-B04 (0-5) Dup	Solid	02/29/16 10:05	03/01/16 10:05
500-108130-3	2633-6-B04 (5-10)	Solid	02/29/16 10:10	03/01/16 10:05
500-108130-4	2633-6-B04 (10-15)	Solid	02/29/16 10:15	03/01/16 10:05
500-108130-5	2633-6-B05 (0-4)	Solid	02/29/16 10:55	03/01/16 10:05
500-108130-6	2633-6-B06 (0-5)	Solid	02/29/16 11:05	03/01/16 10:05
500-108130-7	2633-6-B06 (5-10)	Solid	02/29/16 11:10	03/01/16 10:05

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5)**

**Lab Sample ID: 500-108130-1**

**Date Collected: 02/29/16 10:00**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.025</b>		0.018	0.0035	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
<b>2-Butanone (MEK)</b>	<b>0.0054</b>		0.0045	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/01/16 13:10	03/02/16 16:45	1
Dibromofluoromethane	104		75 - 120	03/01/16 13:10	03/02/16 16:45	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/01/16 13:10	03/02/16 16:45	1
Toluene-d8 (Surr)	104		75 - 122	03/01/16 13:10	03/02/16 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Benzo[a]anthracene</b>	<b>0.051</b>		0.040	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5)**

**Lab Sample ID: 500-108130-1**

**Date Collected: 02/29/16 10:00**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.061</b>		0.040	0.0078	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Benzo[b]fluoranthene</b>	<b>0.091</b>		0.040	0.0087	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Benzo[g,h,i]perylene</b>	<b>0.057</b>		0.040	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Benzo[k]fluoranthene</b>	<b>0.030</b>	<b>J</b>	0.040	0.012	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Chrysene</b>	<b>0.064</b>		0.040	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Fluoranthene</b>	<b>0.095</b>		0.040	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.057</b>		0.040	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5)**

**Lab Sample ID: 500-108130-1**

**Date Collected: 02/29/16 10:00**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Phenanthrene</b>	<b>0.050</b>		0.040	0.0056	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
<b>Pyrene</b>	<b>0.083</b>		0.040	0.0080	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	03/04/16 17:46	03/07/16 14:01	1
2-Fluorophenol	74		25 - 110	03/04/16 17:46	03/07/16 14:01	1
Nitrobenzene-d5	57		25 - 115	03/04/16 17:46	03/07/16 14:01	1
Phenol-d5	73		31 - 110	03/04/16 17:46	03/07/16 14:01	1
Terphenyl-d14	80		36 - 134	03/04/16 17:46	03/07/16 14:01	1
2,4,6-Tribromophenol	67		35 - 137	03/04/16 17:46	03/07/16 14:01	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.23	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Arsenic</b>	<b>7.8</b>	<b>F1</b>	0.56	0.26	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Barium</b>	<b>70</b>	<b>F1</b>	0.56	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Beryllium</b>	<b>0.61</b>		0.23	0.049	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Cadmium</b>	<b>0.049</b>	<b>J F1</b>	0.11	0.033	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.56	0.097	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Copper</b>	<b>21</b>		0.56	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Iron</b>	<b>17000</b>		11	4.3	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Lead</b>	<b>28</b>		0.28	0.14	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Magnesium</b>	<b>18000</b>		5.6	2.3	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Calcium</b>	<b>59000</b>		110	36	mg/Kg	☼	03/01/16 15:38	03/02/16 17:34	10
<b>Manganese</b>	<b>460</b>		0.56	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Nickel</b>	<b>32</b>		0.56	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Selenium</b>	<b>0.34</b>	<b>J F1</b>	0.56	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
Silver	<0.28	F1	0.28	0.066	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Vanadium</b>	<b>20</b>		0.28	0.082	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Zinc</b>	<b>76</b>	<b>F1</b>	1.1	0.36	mg/Kg	☼	03/01/16 15:38	03/03/16 13:10	1
<b>Potassium</b>	<b>1600</b>	<b>B F1</b>	28	4.6	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1
<b>Sodium</b>	<b>340</b>	<b>F1</b>	56	7.4	mg/Kg	☼	03/01/16 15:38	03/02/16 15:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
<b>Barium</b>	<b>0.72</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 17:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 17:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5)**

**Lab Sample ID: 500-108130-1**

**Date Collected: 02/29/16 10:00**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>490</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 17:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 17:13	1
<b>Magnesium</b>	<b>36</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:13	1
<b>Manganese</b>	<b>6.2</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
<b>Potassium</b>	<b>9.5</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 17:13	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:13	1
<b>Zinc</b>	<b>0.034</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:39	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.089</b>		0.019	0.0099	mg/Kg	☼	03/02/16 16:00	03/03/16 11:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/04/16 09:00	03/04/16 13:00	1
<b>pH</b>	<b>9.55</b>		0.200	0.200	SU			03/01/16 17:05	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5) Dup**

**Lab Sample ID: 500-108130-2**

**Date Collected: 02/29/16 10:05**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 78.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.019</b>		0.018	0.0036	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
<b>2-Butanone (MEK)</b>	<b>0.0029 J</b>		0.0046	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/01/16 13:10	03/02/16 17:10	1
Dibromofluoromethane	105		75 - 120	03/01/16 13:10	03/02/16 17:10	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	03/01/16 13:10	03/02/16 17:10	1
Toluene-d8 (Surr)	105		75 - 122	03/01/16 13:10	03/02/16 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
<b>Anthracene</b>	<b>0.0076 J</b>		0.041	0.0068	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
<b>Benzo[a]anthracene</b>	<b>0.051</b>		0.041	0.0055	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5) Dup**

**Lab Sample ID: 500-108130-2**

**Date Collected: 02/29/16 10:05**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 78.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.056		0.041	0.0079	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Benzo[b]fluoranthene	0.088		0.041	0.0088	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Benzo[g,h,i]perylene	0.039	J	0.041	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Benzo[k]fluoranthene	0.034	J	0.041	0.012	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Chrysene	0.065		0.041	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Dibenz(a,h)anthracene	0.0083	J	0.041	0.0079	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Fluoranthene	0.12		0.041	0.0076	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Indeno[1,2,3-cd]pyrene	0.046		0.041	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5) Dup**

**Lab Sample ID: 500-108130-2**

**Date Collected: 02/29/16 10:05**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 78.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
<b>Phenanthrene</b>	<b>0.059</b>		0.041	0.0057	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
<b>Pyrene</b>	<b>0.091</b>		0.041	0.0081	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	03/04/16 17:46	03/07/16 14:30	1
2-Fluorophenol	65		25 - 110	03/04/16 17:46	03/07/16 14:30	1
Nitrobenzene-d5	55		25 - 115	03/04/16 17:46	03/07/16 14:30	1
Phenol-d5	68		31 - 110	03/04/16 17:46	03/07/16 14:30	1
Terphenyl-d14	69		36 - 134	03/04/16 17:46	03/07/16 14:30	1
2,4,6-Tribromophenol	66		35 - 137	03/04/16 17:46	03/07/16 14:30	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Arsenic</b>	<b>7.3</b>		0.62	0.29	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Barium</b>	<b>96</b>		0.62	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Beryllium</b>	<b>0.55</b>		0.25	0.054	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Cadmium</b>	<b>0.35</b>		0.12	0.036	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.62	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Cobalt</b>	<b>11</b>		0.31	0.070	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Copper</b>	<b>20</b>		0.62	0.13	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Iron</b>	<b>15000</b>		12	4.8	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Lead</b>	<b>31</b>		0.31	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Magnesium</b>	<b>46000</b>		6.2	2.5	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Calcium</b>	<b>100000</b>		120	40	mg/Kg	☼	03/01/16 15:38	03/02/16 18:01	10
<b>Manganese</b>	<b>380</b>		0.62	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Nickel</b>	<b>27</b>		0.62	0.17	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Selenium</b>	<b>0.57</b>	<b>J</b>	0.62	0.31	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Vanadium</b>	<b>18</b>		0.31	0.091	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Zinc</b>	<b>75</b>		1.2	0.39	mg/Kg	☼	03/01/16 15:38	03/03/16 13:41	1
<b>Potassium</b>	<b>1600</b>	<b>B</b>	31	5.1	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1
<b>Sodium</b>	<b>260</b>		62	8.2	mg/Kg	☼	03/01/16 15:38	03/02/16 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
<b>Barium</b>	<b>0.85</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 17:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 17:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 17:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (0-5) Dup**

**Lab Sample ID: 500-108130-2**

**Date Collected: 02/29/16 10:05**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 78.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 17:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 17:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 17:20	1
<b>Magnesium</b>	<b>24</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:20	1
<b>Manganese</b>	<b>3.6</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
<b>Potassium</b>	<b>11</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 17:20	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:20	1
<b>Zinc</b>	<b>0.050</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.91</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:40	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.053</b>		0.020	0.011	mg/Kg	☼	03/02/16 16:00	03/03/16 09:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	03/04/16 09:00	03/04/16 13:00	1
<b>pH</b>	<b>9.85</b>		0.200	0.200	SU			03/11/16 11:02	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (5-10)**

**Lab Sample ID: 500-108130-3**

**Date Collected: 02/29/16 10:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/01/16 13:10	03/02/16 17:35	1
Dibromofluoromethane	101		75 - 120	03/01/16 13:10	03/02/16 17:35	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/01/16 13:10	03/02/16 17:35	1
Toluene-d8 (Surr)	106		75 - 122	03/01/16 13:10	03/02/16 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (5-10)**

**Lab Sample ID: 500-108130-3**

**Date Collected: 02/29/16 10:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (5-10)**

**Lab Sample ID: 500-108130-3**

**Date Collected: 02/29/16 10:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	03/04/16 17:46	03/07/16 14:59	1
2-Fluorophenol	78		25 - 110	03/04/16 17:46	03/07/16 14:59	1
Nitrobenzene-d5	66		25 - 115	03/04/16 17:46	03/07/16 14:59	1
Phenol-d5	72		31 - 110	03/04/16 17:46	03/07/16 14:59	1
Terphenyl-d14	71		36 - 134	03/04/16 17:46	03/07/16 14:59	1
2,4,6-Tribromophenol	50		35 - 137	03/04/16 17:46	03/07/16 14:59	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Arsenic</b>	<b>6.9</b>		0.55	0.25	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Barium</b>	<b>42</b>		0.55	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Beryllium</b>	<b>0.64</b>		0.22	0.047	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Chromium</b>	<b>17 B</b>		0.55	0.094	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Cobalt</b>	<b>11</b>		0.27	0.062	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Copper</b>	<b>23</b>		0.55	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Iron</b>	<b>20000</b>		11	4.2	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Lead</b>	<b>13</b>		0.27	0.14	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Magnesium</b>	<b>22000</b>		5.5	2.2	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Calcium</b>	<b>57000</b>		110	35	mg/Kg	☼	03/01/16 15:38	03/02/16 18:06	10
<b>Manganese</b>	<b>230</b>		0.55	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Nickel</b>	<b>36</b>		0.55	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Thallium</b>	<b>0.33 J</b>		0.55	0.27	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Vanadium</b>	<b>20</b>		0.27	0.080	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Zinc</b>	<b>60</b>		1.1	0.35	mg/Kg	☼	03/01/16 15:38	03/03/16 13:46	1
<b>Potassium</b>	<b>2000 B</b>		27	4.4	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1
<b>Sodium</b>	<b>200</b>		55	7.2	mg/Kg	☼	03/01/16 15:38	03/02/16 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
<b>Barium</b>	<b>0.32 J</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 17:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 17:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 17:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (5-10)**

**Lab Sample ID: 500-108130-3**

**Date Collected: 02/29/16 10:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>590</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 17:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 17:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 17:26	1
<b>Magnesium</b>	<b>39</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:26	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
Nickel	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
<b>Potassium</b>	<b>2.4 J</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 17:26	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:26	1
<b>Zinc</b>	<b>0.073 J B</b>		0.50	0.020	mg/L		03/03/16 14:35	03/04/16 17:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.72</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:41	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.058</b>		0.018	0.0097	mg/Kg	☼	03/02/16 16:00	03/03/16 09:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/04/16 09:00	03/04/16 13:00	1
<b>pH</b>	<b>8.88</b>		0.200	0.200	SU			03/01/16 17:10	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (10-15)**

**Lab Sample ID: 500-108130-4**

Date Collected: 02/29/16 10:15

Matrix: Solid

Date Received: 03/01/16 10:05

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	03/01/16 13:10	03/02/16 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/01/16 13:10	03/02/16 18:00	1
Dibromofluoromethane	101		75 - 120	03/01/16 13:10	03/02/16 18:00	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/01/16 13:10	03/02/16 18:00	1
Toluene-d8 (Surr)	111		75 - 122	03/01/16 13:10	03/02/16 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (10-15)**

**Lab Sample ID: 500-108130-4**

**Date Collected: 02/29/16 10:15**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
<b>2-Methylnaphthalene</b>	<b>0.0084</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (10-15)**

**Lab Sample ID: 500-108130-4**

**Date Collected: 02/29/16 10:15**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
<b>Phenanthrene</b>	<b>0.025</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		25 - 119				03/04/16 17:46	03/07/16 15:28	1
2-Fluorophenol	77		25 - 110				03/04/16 17:46	03/07/16 15:28	1
Nitrobenzene-d5	62		25 - 115				03/04/16 17:46	03/07/16 15:28	1
Phenol-d5	74		31 - 110				03/04/16 17:46	03/07/16 15:28	1
Terphenyl-d14	68		36 - 134				03/04/16 17:46	03/07/16 15:28	1
2,4,6-Tribromophenol	47		35 - 137				03/04/16 17:46	03/07/16 15:28	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Arsenic</b>	<b>5.5</b>		0.56	0.26	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Barium</b>	<b>24</b>		0.56	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Beryllium</b>	<b>0.60</b>		0.23	0.049	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Cadmium</b>	<b>0.086</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.56	0.097	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Cobalt</b>	<b>12</b>		0.28	0.064	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Copper</b>	<b>26</b>		0.56	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Iron</b>	<b>17000</b>		11	4.3	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Magnesium</b>	<b>26000</b>		5.6	2.3	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Calcium</b>	<b>66000</b>		110	36	mg/Kg	☼	03/01/16 15:38	03/02/16 18:10	10
<b>Manganese</b>	<b>280</b>		0.56	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Nickel</b>	<b>34</b>		0.56	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Thallium</b>	<b>0.44</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Vanadium</b>	<b>18</b>		0.28	0.082	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Zinc</b>	<b>60</b>		1.1	0.36	mg/Kg	☼	03/01/16 15:38	03/03/16 13:51	1
<b>Potassium</b>	<b>1900</b>	<b>B</b>	28	4.6	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1
<b>Sodium</b>	<b>200</b>		56	7.4	mg/Kg	☼	03/01/16 15:38	03/02/16 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		03/03/16 14:35	03/04/16 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 17:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 17:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B04 (10-15)**

**Lab Sample ID: 500-108130-4**

**Date Collected: 02/29/16 10:15**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>580</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 17:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 17:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 17:33	1
<b>Magnesium</b>	<b>42</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:33	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
<b>Nickel</b>	<b>0.033</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
<b>Potassium</b>	<b>5.3</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 17:33	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:33	1
<b>Zinc</b>	<b>0.086</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.13</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:42	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.043</b>		0.018	0.0096	mg/Kg	☼	03/02/16 16:00	03/03/16 09:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	03/04/16 09:00	03/04/16 13:00	1
<b>pH</b>	<b>8.69</b>		0.200	0.200	SU			03/01/16 17:12	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B05 (0-4)**

**Lab Sample ID: 500-108130-5**

Date Collected: 02/29/16 10:55

Matrix: Solid

Date Received: 03/01/16 10:05

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.017	0.0034	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Bromodichloromethane	<0.0044		0.0044	0.00073	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
2-Butanone (MEK)	<0.0044		0.0044	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,2-Dichloroethane	<0.0044		0.0044	0.00064	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	03/01/16 13:10	03/02/16 18:25	1
Dibromofluoromethane	103		75 - 120	03/01/16 13:10	03/02/16 18:25	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	03/01/16 13:10	03/02/16 18:25	1
Toluene-d8 (Surr)	106		75 - 122	03/01/16 13:10	03/02/16 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B05 (0-4)**

**Lab Sample ID: 500-108130-5**

**Date Collected: 02/29/16 10:55**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B05 (0-4)**

**Lab Sample ID: 500-108130-5**

**Date Collected: 02/29/16 10:55**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		25 - 119	03/04/16 17:46	03/07/16 15:57	1
2-Fluorophenol	70		25 - 110	03/04/16 17:46	03/07/16 15:57	1
Nitrobenzene-d5	58		25 - 115	03/04/16 17:46	03/07/16 15:57	1
Phenol-d5	66		31 - 110	03/04/16 17:46	03/07/16 15:57	1
Terphenyl-d14	53		36 - 134	03/04/16 17:46	03/07/16 15:57	1
2,4,6-Tribromophenol	52		35 - 137	03/04/16 17:46	03/07/16 15:57	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Arsenic</b>	<b>9.3</b>		0.59	0.27	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Barium</b>	<b>81</b>		0.59	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Beryllium</b>	<b>0.76</b>		0.23	0.051	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Chromium</b>	<b>17 B</b>		0.59	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Copper</b>	<b>23</b>		0.59	0.13	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Iron</b>	<b>22000</b>		12	4.5	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Lead</b>	<b>20</b>		0.29	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Magnesium</b>	<b>2900</b>		5.9	2.4	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Calcium</b>	<b>2600</b>		12	3.8	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Manganese</b>	<b>590</b>		0.59	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Nickel</b>	<b>26</b>		0.59	0.16	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Selenium</b>	<b>0.72</b>		0.59	0.29	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Vanadium</b>	<b>27</b>		0.29	0.086	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Zinc</b>	<b>57</b>		1.2	0.37	mg/Kg	☼	03/01/16 15:38	03/03/16 13:56	1
<b>Potassium</b>	<b>1500 B</b>		29	4.8	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1
<b>Sodium</b>	<b>720</b>		59	7.7	mg/Kg	☼	03/01/16 15:38	03/02/16 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 17:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 17:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B05 (0-4)**

**Lab Sample ID: 500-108130-5**

**Date Collected: 02/29/16 10:55**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>58</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 17:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Cobalt</b>	<b>0.050</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Iron</b>	<b>6.7</b>		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Lead</b>	<b>0.010</b>		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Magnesium</b>	<b>5.3</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Manganese</b>	<b>8.9</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Potassium</b>	<b>16</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 17:40	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:40	1
<b>Zinc</b>	<b>0.80</b>	<b>B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 17:40	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>170</b>		0.40	0.20	mg/L		03/02/16 14:29	03/03/16 14:14	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		03/02/16 14:29	03/03/16 14:14	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:43	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.019	0.0098	mg/Kg	☼	03/02/16 16:00	03/03/16 09:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/04/16 09:00	03/04/16 13:01	1
<b>pH</b>	<b>8.06</b>		0.200	0.200	SU			03/01/16 17:15	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (0-5)**

**Lab Sample ID: 500-108130-6**

Date Collected: 02/29/16 11:05

Matrix: Solid

Date Received: 03/01/16 10:05

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.021</b>		0.017	0.0033	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/01/16 13:10	03/02/16 18:50	1
Dibromofluoromethane	104		75 - 120	03/01/16 13:10	03/02/16 18:50	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/01/16 13:10	03/02/16 18:50	1
Toluene-d8 (Surr)	107		75 - 122	03/01/16 13:10	03/02/16 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
<b>Benzo[a]anthracene</b>	<b>0.0062</b>	<b>J</b>	0.040	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (0-5)**

**Lab Sample ID: 500-108130-6**

**Date Collected: 02/29/16 11:05**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
<b>Fluoranthene</b>	<b>0.012 J</b>		0.040	0.0074	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (0-5)**

**Lab Sample ID: 500-108130-6**

**Date Collected: 02/29/16 11:05**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
<b>Pyrene</b>	<b>0.0091</b>	<b>J</b>	0.040	0.0080	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	03/04/16 17:46	03/07/16 16:26	1
2-Fluorophenol	86		25 - 110	03/04/16 17:46	03/07/16 16:26	1
Nitrobenzene-d5	66		25 - 115	03/04/16 17:46	03/07/16 16:26	1
Phenol-d5	80		31 - 110	03/04/16 17:46	03/07/16 16:26	1
Terphenyl-d14	79		36 - 134	03/04/16 17:46	03/07/16 16:26	1
2,4,6-Tribromophenol	79		35 - 137	03/04/16 17:46	03/07/16 16:26	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Arsenic</b>	<b>11</b>		0.60	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Barium</b>	<b>61</b>		0.60	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Beryllium</b>	<b>0.70</b>		0.24	0.052	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Cobalt</b>	<b>17</b>		0.30	0.068	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Copper</b>	<b>34</b>		0.60	0.13	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Iron</b>	<b>23000</b>		12	4.6	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Lead</b>	<b>27</b>		0.30	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Magnesium</b>	<b>3000</b>		6.0	2.4	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Calcium</b>	<b>1900</b>		12	3.9	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Manganese</b>	<b>310</b>		0.60	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Nickel</b>	<b>37</b>		0.60	0.16	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Selenium</b>	<b>0.63</b>		0.60	0.30	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Thallium</b>	<b>0.66</b>		0.60	0.30	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Vanadium</b>	<b>24</b>		0.30	0.088	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Zinc</b>	<b>65</b>		1.2	0.38	mg/Kg	☼	03/01/16 15:38	03/03/16 14:01	1
<b>Potassium</b>	<b>1500</b>	<b>B</b>	30	4.9	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1
<b>Sodium</b>	<b>610</b>		60	7.9	mg/Kg	☼	03/01/16 15:38	03/02/16 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 17:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (0-5)**

**Lab Sample ID: 500-108130-6**

**Date Collected: 02/29/16 11:05**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	72		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 17:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
Cobalt	0.063		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
Copper	0.010	J	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
Iron	4.4		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 17:46	1
Lead	0.018		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 17:46	1
Magnesium	8.0		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:46	1
Manganese	18		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
Nickel	0.060		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
Potassium	16		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 17:46	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:46	1
Zinc	0.75	B	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 17:46	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.18		0.0075	0.0075	mg/L		03/02/16 14:29	03/03/16 14:21	1
Manganese	1.7		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:46	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.010	mg/Kg	☼	03/02/16 16:00	03/03/16 09:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/04/16 09:00	03/04/16 13:01	1
pH	8.11		0.200	0.200	SU			03/01/16 17:17	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (5-10)**

**Lab Sample ID: 500-108130-7**

**Date Collected: 02/29/16 11:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	03/01/16 13:10	03/02/16 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/01/16 13:10	03/02/16 19:15	1
Dibromofluoromethane	107		75 - 120	03/01/16 13:10	03/02/16 19:15	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/01/16 13:10	03/02/16 19:15	1
Toluene-d8 (Surr)	106		75 - 122	03/01/16 13:10	03/02/16 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (5-10)**

**Lab Sample ID: 500-108130-7**

**Date Collected: 02/29/16 11:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (5-10)**

**Lab Sample ID: 500-108130-7**

**Date Collected: 02/29/16 11:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		25 - 119	03/04/16 17:46	03/07/16 16:54	1
2-Fluorophenol	65		25 - 110	03/04/16 17:46	03/07/16 16:54	1
Nitrobenzene-d5	53		25 - 115	03/04/16 17:46	03/07/16 16:54	1
Phenol-d5	66		31 - 110	03/04/16 17:46	03/07/16 16:54	1
Terphenyl-d14	67		36 - 134	03/04/16 17:46	03/07/16 16:54	1
2,4,6-Tribromophenol	44		35 - 137	03/04/16 17:46	03/07/16 16:54	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Arsenic</b>	<b>6.6</b>		0.57	0.26	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Barium</b>	<b>46</b>		0.57	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Beryllium</b>	<b>0.67</b>		0.23	0.050	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Chromium</b>	<b>18 B</b>		0.57	0.099	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Cobalt</b>	<b>13</b>		0.29	0.065	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Copper</b>	<b>22</b>		0.57	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Lead</b>	<b>13</b>		0.29	0.14	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Magnesium</b>	<b>22000</b>		5.7	2.3	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Calcium</b>	<b>34000</b>		11	3.7	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Manganese</b>	<b>370</b>		0.57	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Nickel</b>	<b>36</b>		0.57	0.16	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Thallium</b>	<b>0.50 J</b>		0.57	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Vanadium</b>	<b>20</b>		0.29	0.084	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Zinc</b>	<b>61</b>		1.1	0.36	mg/Kg	☼	03/01/16 15:38	03/03/16 14:06	1
<b>Potassium</b>	<b>2100 B</b>		29	4.7	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1
<b>Sodium</b>	<b>560</b>		57	7.6	mg/Kg	☼	03/01/16 15:38	03/02/16 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
<b>Barium</b>	<b>0.45 J</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 17:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

**Client Sample ID: 2633-6-B06 (5-10)**

**Lab Sample ID: 500-108130-7**

**Date Collected: 02/29/16 11:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>350</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 17:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 17:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 17:53	1
<b>Magnesium</b>	<b>80</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:53	1
<b>Manganese</b>	<b>6.7</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
<b>Potassium</b>	<b>6.6</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 17:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 17:53	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 17:53	1
<b>Zinc</b>	<b>0.49</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:47	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.017</b>	<b>J</b>	0.019	0.010	mg/Kg	☼	03/02/16 16:00	03/03/16 09:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/04/16 09:00	03/04/16 13:01	1
<b>pH</b>	<b>8.43</b>		0.200	0.200	SU			03/01/16 17:20	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-1

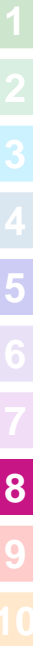
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.534.5200 Fax: 708.534.



500-108130 COC

Report To (optional)  
Contact: Matt Weiss  
Company: Ferraron  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: 630-717-1263  
Fax: 630-357-2489  
E-Mail: Matt.Weiss@ferraron.com

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

## Chain of Custody Record

Lab Job #: 500-108130

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: 216.3.1

Client		Client Project #		Preservative		Parameter										Preservative Key	
		<u>1157115</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Lab Project #		Lab PM											
<u>Labrange</u>		<u>Labrange, IL</u>															
Sampler																	
<u>CTX</u>																	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SUOCS	Total 23 Inorganics	TCCP 23 Inorganics	PH	SPLP 23 Inorganics	Comments				
			Date	Time													
<u>1</u>		<u>2633-6-B04 (0-5)</u>	<u>2/29/16</u>	<u>10:00</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>HOLD SPLP Analysis</u>			
<u>2</u>		<u>2633-6-B04 (0-5) Dup</u>	<u>2/29/16</u>	<u>10:05</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>3</u>		<u>2633-6-B04 (5-10)</u>	<u>2/29/16</u>	<u>10:10</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>4</u>		<u>2633-6-B04 (10-15)</u>	<u>2/29/16</u>	<u>10:15</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>5</u>		<u>2633-6-B05 (0-4)</u>	<u>2/29/16</u>	<u>10:55</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>6</u>		<u>2633-6-B06 (0-5)</u>	<u>2/29/16</u>	<u>11:05</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>7</u>		<u>2633-6-B06 (5-10)</u>	<u>2/29/16</u>	<u>11:10</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Ferraron</u>	Date <u>3/1/16</u>	Time <u>8:20</u>	Received By <u>David Beck</u>	Company <u>TA</u>	Date <u>3-1-16</u>	Time <u>08:23</u>
Relinquished By <u>David Beck</u>	Company <u>TA</u>	Date <u>3-1-16</u>	Time <u>10:05</u>	Received By <u>Matthew Scott</u>	Company <u>TA-ERT</u>	Date <u>3/1/16</u>	Time <u>10:05</u>

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

Please meet IL TACO Requirements & HOLD SPLP analysis. Thank you.

Lab Comments:

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108130-1

**Login Number: 108130**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	







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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

US 34 (near US 34 and LaGrange Road intersection) from IDOT STA 95+20 to 95+40 (ISGS Site 2633-8)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B01 was sampled adjacent to ISGS Site No 2633-8. See Exhibits 2, 2C, and Table 9 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108130-3. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/23/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-8-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		4.5
Barium	mg/kg	---	110	1500		85
Cadmium	mg/kg	---	0.6	5.2		0.084
Chromium, total	mg/kg	---	16.2	21		18
Lead	mg/kg	---	36	107		57
Mercury	mg/kg	---	0.06	0.1		0.044
Selenium	mg/kg	---	0.48	1.3		<0.59
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		<1.2
Beryllium	mg/kg	---	0.59	22		0.77
Calcium	mg/kg	---	9,300	---		2800
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		23
Cyanide	mg/kg	---	0.51	---		<0.60
Iron	mg/kg	---	15,900	15000		18000
Magnesium	mg/kg	---	4,820	325000		3500
Manganese	mg/kg	---	636	630		440
Nickel	mg/kg	---	18	100		28
Potassium	mg/kg	---	1,268	---		1000
Sodium	mg/kg	---	130	---		770
Thallium	mg/kg	---	0.32	2.6		<0.59
Vanadium	mg/kg	---	25.2	550		20
Zinc	mg/kg	---	95	5100		69
pH			6.25	9		8.62
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-8-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.33
Cadmium, TCLP	mg/L	---	---	---		<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050
Silver, TCLP	mg/L	---	---	---		<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		45
Cobalt, TCLP	mg/L	---	---	---		<0.025
Copper, TCLP	mg/L	---	---	---		<0.025
Cyanide, TCLP	mg/L	---	---	---		---
Iron, TCLP	mg/L	---	---	---		<0.40
Magnesium, TCLP	mg/L	---	---	---		17
Manganese, TCLP	mg/L	---	---	---		0.02
Nickel, TCLP	mg/L	---	---	---		<0.025
Potassium, TCLP	mg/L	---	---	---		1.5
Sodium, TCLP	mg/L	---	---	---		---
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		0.14

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108130-3

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

3/11/2016 4:34:27 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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results through

TotalAccess

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

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**Job ID: 500-108130-3**

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**Laboratory: TestAmerica Chicago**

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## Narrative

**Job Narrative  
500-108130-3**

### Comments

No additional comments.

### Receipt

The samples were received on 3/1/2016 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 3.1° C.

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

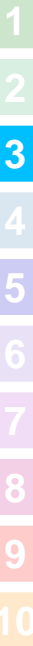
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### General Chemistry

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

### Organic Prep

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



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

**Client Sample ID: 2633-8-B01 (2.5-7.5)**

**Lab Sample ID: 500-108130-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	4.5		0.59	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	85		0.59	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.77		0.23	0.051	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.084	J	0.12	0.034	mg/Kg	1		☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1		☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1		☼	6010B	Total/NA
Lead	57		0.29	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	3500		5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	2800		12	3.8	mg/Kg	1		☼	6010B	Total/NA
Manganese	440		0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	28		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.29	0.086	mg/Kg	1		☼	6010B	Total/NA
Zinc	69		1.2	0.37	mg/Kg	1		☼	6010B	Total/NA
Potassium	1000	B	29	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	770		59	7.7	mg/Kg	1		☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	45		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	17		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.020	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1			6010B	TCLP
Mercury	0.044		0.020	0.010	mg/Kg	1		☼	7471B	Total/NA
pH	8.62		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108130-10	2633-8-B01 (2.5-7.5)	Solid	02/29/16 11:55	03/01/16 10:05

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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

**Client Sample ID: 2633-8-B01 (2.5-7.5)**

**Lab Sample ID: 500-108130-10**

**Date Collected: 02/29/16 11:55**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	03/01/16 13:10	03/03/16 11:32	1
Dibromofluoromethane	103		75 - 120	03/01/16 13:10	03/03/16 11:32	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/01/16 13:10	03/03/16 11:32	1
Toluene-d8 (Surr)	106		75 - 122	03/01/16 13:10	03/03/16 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

**Client Sample ID: 2633-8-B01 (2.5-7.5)**

**Lab Sample ID: 500-108130-10**

**Date Collected: 02/29/16 11:55**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

**Client Sample ID: 2633-8-B01 (2.5-7.5)**

**Lab Sample ID: 500-108130-10**

**Date Collected: 02/29/16 11:55**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	03/04/16 17:46	03/07/16 18:21	1
2-Fluorophenol	87		25 - 110	03/04/16 17:46	03/07/16 18:21	1
Nitrobenzene-d5	71		25 - 115	03/04/16 17:46	03/07/16 18:21	1
Phenol-d5	81		31 - 110	03/04/16 17:46	03/07/16 18:21	1
Terphenyl-d14	64		36 - 134	03/04/16 17:46	03/07/16 18:21	1
2,4,6-Tribromophenol	54		35 - 137	03/04/16 17:46	03/07/16 18:21	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Arsenic</b>	<b>4.5</b>		0.59	0.27	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Barium</b>	<b>85</b>		0.59	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Beryllium</b>	<b>0.77</b>		0.23	0.051	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Cadmium</b>	<b>0.084</b>	<b>J</b>	0.12	0.034	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.59	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Cobalt</b>	<b>14</b>		0.29	0.066	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Copper</b>	<b>23</b>		0.59	0.13	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Lead</b>	<b>57</b>		0.29	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Magnesium</b>	<b>3500</b>		5.9	2.4	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Calcium</b>	<b>2800</b>		12	3.8	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Manganese</b>	<b>440</b>		0.59	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Nickel</b>	<b>28</b>		0.59	0.16	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Vanadium</b>	<b>20</b>		0.29	0.086	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Zinc</b>	<b>69</b>		1.2	0.37	mg/Kg	☼	03/01/16 15:38	03/03/16 14:20	1
<b>Potassium</b>	<b>1000</b>	<b>B</b>	29	4.8	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1
<b>Sodium</b>	<b>770</b>		59	7.7	mg/Kg	☼	03/01/16 15:38	03/02/16 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/03/16 14:35	03/04/16 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 18:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

**Client Sample ID: 2633-8-B01 (2.5-7.5)**

**Lab Sample ID: 500-108130-10**

**Date Collected: 02/29/16 11:55**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>45</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 18:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 18:29	1
<b>Magnesium</b>	<b>17</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:29	1
<b>Manganese</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
<b>Potassium</b>	<b>1.5</b>	<b>J</b>	2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 18:29	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:29	1
<b>Zinc</b>	<b>0.14</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	<sup>^</sup>	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:51	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:53	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.044</b>		0.020	0.010	mg/Kg	⊛	03/02/16 16:00	03/03/16 10:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	⊛	03/04/16 09:00	03/04/16 13:03	1
<b>pH</b>	<b>8.62</b>		0.200	0.200	SU			03/01/16 17:27	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

## Qualifiers

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-3

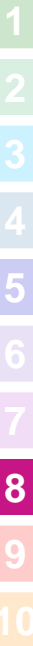
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-357-9484  
 E-Mail: Matt.Weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108130  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments					
		<u>11157115</u>													
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key					
		<u>La Orange, IL</u>				<u>OTK</u>				1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SUOCs	Total ZS	Inorganics	TCLP ZS	Inorganics	pH	SPLP ZS	Inorganics
<u>10</u>		<u>2637-8-B01 (2.5-7.5)</u>	<u>2/22/16</u>	<u>11:55</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<p>Comments: <u>HOLD SPLP Analysis</u></p>															

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

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

Relinquished By <u>David Kelley</u> Company: <u>Terracon</u> Date: <u>3/1/16</u> Time: <u>8:20</u>	Received By <u>David Berber</u> Company: <u>TA</u> Date: <u>3-1-16</u> Time: <u>0823</u>
Relinquished By <u>David Berber</u> Company: <u>TA</u> Date: <u>3-1-16</u> Time: <u>10:05</u>	Received By <u>Matthew</u> Company: <u>TA-CHT</u> Date: <u>3/1/16</u> Time: <u>1005</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: Please meet IL TACO requirements & HOLD SPLP Analysis. Thank you.

Lab Comments: \_\_\_\_\_



## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108130-3

**Login Number: 108130**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

US 34 (near US 34 and LaGrange Road intersection) from IDOT STA 96+98 to 98+10 (ISGS Site 2633-9)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B01 was sampled adjacent to ISGS Site No 2633-9.  
 See Exhibits 2, 2D, and Table 11 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108130-4. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:  
Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-9-B01 (0-5)	2633-9-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016	02/29/2016
<b>Semivolatile Organic Analytical Parameters</b>							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039	0.011
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.039	0.011
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.039	0.02
Chrysene	mg/kg	1.2	2.7	88		<0.039	0.016
Fluoranthene	mg/kg	2.7	4.1	3100		0.0089	0.032
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039	0.01
Phenanthrene	mg/kg	1.3	2.5	210		0.0056	0.012
Pyrene	mg/kg	1.9	3.0	2300		<0.039	0.022
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		8.9	7
Barium	mg/kg	---	110	1500		67	43
Cadmium	mg/kg	---	0.6	5.2		0.086	<0.11
Chromium, total	mg/kg	---	16.2	21		18	17
Lead	mg/kg	---	36	107		26	18
Mercury	mg/kg	---	0.06	0.1		0.034	0.064
Selenium	mg/kg	---	0.48	1.3		0.49	<0.57
Silver	mg/kg	---	0.55	4.4		<0.30	<0.29
Antimony	mg/kg	---	4.0	5		<1.2	<1.1
Beryllium	mg/kg	---	0.59	22		0.75	0.62
Calcium	mg/kg	---	9,300	---		55000	33000
Cobalt	mg/kg	---	8.9	20		18	11
Copper	mg/kg	---	19.6	2900		34	24
Cyanide	mg/kg	---	0.51	---		<0.58	<0.56
Iron	mg/kg	---	15,900	15000		21000	19000
Magnesium	mg/kg	---	4,820	325000		21000	22000
Manganese	mg/kg	---	636	630		410	210
Nickel	mg/kg	---	18	100		41	34
Potassium	mg/kg	---	1,268	---		1600	1700
Sodium	mg/kg	---	130	---		2500	1800
Thallium	mg/kg	---	0.32	2.6		0.54	0.55
Vanadium	mg/kg	---	25.2	550		23	19
Zinc	mg/kg	---	95	5100		66	68
pH			6.25	9		8.99	8.45
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		0.17	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		2.6	1.1
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-9-B01 (0-5)	2633-9-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/29/2016	02/29/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.71	0.4
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		0.0096	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		290	420
Cobalt, TCLP	mg/L	---	---	---		0.027	0.011
Copper, TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide, TCLP	mg/L	---	---	---		---	---
Iron, TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium, TCLP	mg/L	---	---	---		77	110
Manganese, TCLP	mg/L	---	---	---		12	2
Nickel, TCLP	mg/L	---	---	---		0.025	0.018
Potassium, TCLP	mg/L	---	---	---		3.3	3.1
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.14	0.25

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108130-4

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

*Jodie Bracken*

Authorized for release by:

3/11/2016 4:35:29 PM

Jodie Bracken, Project Management Assistant II

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Designee for

Richard Wright, Senior Project Manager

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### LINKS

Review your project  
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Have a Question?



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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Job ID: 500-108130-4**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative  
500-108130-4**

### Comments

No additional comments.

### Receipt

The samples were received on 3/1/2016 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 3.1° C.

### GC/MS VOA

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

### GC/MS Semi VOA

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 500-325077 recovered outside control limits for the following analyte: Phenol; however, %R for both the LCS and LCSD were within control limits. Data has been qualified and reported.

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

### Metals

Method(s) 6020A: The following sample was diluted due to the nature of the sample matrix: 2633-9-G01 (500-108130-14). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The continuing calibration verification (CCV) at line 37 in AD batch 500-326292 recovered above the upper control limit for Hg. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

### General Chemistry

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

### Organic Prep

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



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B01 (0-5)**

**Lab Sample ID: 500-108130-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0089	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0056	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.9		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	67		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.086	J	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	55000		120	39	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	41		0.61	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.54	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600	B	30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		61	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0096		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	77		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.99		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-9-B01 (5-10)**

**Lab Sample ID: 500-108130-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.020	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.012	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.0		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

## Client Sample ID: 2633-9-B01 (5-10) (Continued)

## Lab Sample ID: 500-108130-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000		11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.55	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.25	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.064		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-9-B02 (2.5-7.5)

## Lab Sample ID: 500-108130-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	21		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	38		0.62	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	29000		12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4500		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	2500		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	630		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	57		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.0		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	B	31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	770		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	65		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.61	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

## Client Sample ID: 2633-9-B02 (2.5-7.5) (Continued)

## Lab Sample ID: 500-108130-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.067	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.069		0.021	0.011	mg/Kg	1	*	7471B	Total/NA
pH	8.25		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-9-G01

## Lab Sample ID: 500-108130-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0055		0.0050	0.0017	mg/L	1		8260B	Total/NA
Anthracene	0.00028	J	0.00072	0.00024	mg/L	1		8270D	Total/NA
Benzo[a]anthracene	0.0017		0.00012	0.000041	mg/L	1		8270D	Total/NA
Benzo[a]pyrene	0.0030		0.00014	0.000071	mg/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0059		0.00014	0.000058	mg/L	1		8270D	Total/NA
Benzo[g,h,i]perylene	0.0029		0.00072	0.00027	mg/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.0025		0.00014	0.000046	mg/L	1		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.0024	J	0.0072	0.0012	mg/L	1		8270D	Total/NA
Carbazole	0.00031	J	0.0036	0.00026	mg/L	1		8270D	Total/NA
Chrysene	0.0024		0.00036	0.000049	mg/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.00053		0.00022	0.000037	mg/L	1		8270D	Total/NA
Fluoranthene	0.0034		0.00072	0.00033	mg/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.0026		0.00014	0.000054	mg/L	1		8270D	Total/NA
2-Methylnaphthalene	0.000079	J	0.00036	0.000047	mg/L	1		8270D	Total/NA
Phenanthrene	0.00077		0.00072	0.00022	mg/L	1		8270D	Total/NA
Pyrene	0.0034		0.00072	0.00031	mg/L	1		8270D	Total/NA
Antimony	0.0021	J	0.0030	0.0010	mg/L	1		6020A	Total Recoverable
Arsenic	0.022		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.95		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Beryllium	0.0019		0.0010	0.00024	mg/L	1		6020A	Total Recoverable
Cadmium	0.0090		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	510		1.0	0.53	mg/L	5		6020A	Total Recoverable
Chromium	0.054		0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.025		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.049		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	27		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	1.3		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	120		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	4.8		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.061		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	19		0.50	0.19	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

## Client Sample ID: 2633-9-G01 (Continued)

## Lab Sample ID: 500-108130-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.0069	J	0.013	0.0042	mg/L	5		6020A	Total Recoverable
Silver	0.00044	J	0.00050	0.000080	mg/L	1		6020A	Total Recoverable
Sodium	7100	B	10	4.4	mg/L	50		6020A	Total Recoverable
Thallium	0.00077	J	0.0020	0.00059	mg/L	1		6020A	Total Recoverable
Vanadium	0.050		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	1.1		0.020	0.0046	mg/L	1		6020A	Total Recoverable
Cyanide, Total	0.072		0.010	0.0021	mg/L	1		9014	Total/NA

## Client Sample ID: Trip Blank

## Lab Sample ID: 500-108130-15

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108130-11	2633-9-B01 (0-5)	Solid	02/29/16 14:10	03/01/16 10:05
500-108130-12	2633-9-B01 (5-10)	Solid	02/29/16 14:15	03/01/16 10:05
500-108130-13	2633-9-B02 (2.5-7.5)	Solid	02/29/16 13:50	03/01/16 10:05
500-108130-14	2633-9-G01	Water	02/29/16 15:00	03/01/16 10:05
500-108130-15	Trip Blank	Water	02/29/16 00:00	03/01/16 10:05

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B01 (0-5)**

**Lab Sample ID: 500-108130-11**

**Date Collected: 02/29/16 14:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Bromoform	<0.0043		0.0043	0.00089	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Chloroform	<0.0043		0.0043	0.00085	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/01/16 13:10	03/03/16 11:57	1
Dibromofluoromethane	104		75 - 120	03/01/16 13:10	03/03/16 11:57	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/01/16 13:10	03/03/16 11:57	1
Toluene-d8 (Surr)	104		75 - 122	03/01/16 13:10	03/03/16 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1

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TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B01 (0-5)**

**Lab Sample ID: 500-108130-11**

**Date Collected: 02/29/16 14:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
<b>Fluoranthene</b>	<b>0.0089</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1

TestAmerica Chicago

# Client Sample Results

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**Client Sample ID: 2633-9-B01 (0-5)**

**Lab Sample ID: 500-108130-11**

**Date Collected: 02/29/16 14:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
<b>Phenanthrene</b>	<b>0.0056</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		25 - 119	03/04/16 17:46	03/07/16 18:50	1
2-Fluorophenol	54		25 - 110	03/04/16 17:46	03/07/16 18:50	1
Nitrobenzene-d5	47		25 - 115	03/04/16 17:46	03/07/16 18:50	1
Phenol-d5	56		31 - 110	03/04/16 17:46	03/07/16 18:50	1
Terphenyl-d14	75		36 - 134	03/04/16 17:46	03/07/16 18:50	1
2,4,6-Tribromophenol	62		35 - 137	03/04/16 17:46	03/07/16 18:50	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Arsenic</b>	<b>8.9</b>		0.61	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Barium</b>	<b>67</b>		0.61	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Beryllium</b>	<b>0.75</b>		0.24	0.053	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Cadmium</b>	<b>0.086</b>	<b>J</b>	0.12	0.035	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.61	0.10	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Cobalt</b>	<b>18</b>		0.30	0.069	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Copper</b>	<b>34</b>		0.61	0.13	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Iron</b>	<b>21000</b>		12	4.7	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Lead</b>	<b>26</b>		0.30	0.15	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Magnesium</b>	<b>21000</b>		6.1	2.5	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Calcium</b>	<b>55000</b>		120	39	mg/Kg	☼	03/01/16 15:38	03/02/16 18:46	10
<b>Manganese</b>	<b>410</b>		0.61	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Nickel</b>	<b>41</b>		0.61	0.16	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Selenium</b>	<b>0.49</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Thallium</b>	<b>0.54</b>	<b>J</b>	0.61	0.30	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Vanadium</b>	<b>23</b>		0.30	0.089	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Zinc</b>	<b>66</b>		1.2	0.38	mg/Kg	☼	03/01/16 15:38	03/03/16 14:25	1
<b>Potassium</b>	<b>1600</b>	<b>B</b>	30	4.9	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1
<b>Sodium</b>	<b>2500</b>		61	8.0	mg/Kg	☼	03/01/16 15:38	03/02/16 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Barium</b>	<b>0.71</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 18:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 18:36	1

TestAmerica Chicago



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 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

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**Lab Sample ID: 500-108130-11**

**Date Collected: 02/29/16 14:10**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>290</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 18:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Lead</b>	<b>0.0096</b>		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Magnesium</b>	<b>77</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Potassium</b>	<b>3.3</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 18:36	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:36	1
<b>Zinc</b>	<b>0.14</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 18:36	1

## Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>0.17</b>		0.0075	0.0075	mg/L		03/02/16 14:29	03/03/16 15:10	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:52	1

## Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 12:55	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.019	0.010	mg/Kg	☼	03/02/16 16:00	03/03/16 10:05	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/04/16 09:00	03/04/16 13:03	1
<b>pH</b>	<b>8.99</b>		0.200	0.200	SU			03/01/16 17:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B01 (5-10)**

**Lab Sample ID: 500-108130-12**

**Date Collected: 02/29/16 14:15**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Chloroform	<0.0043		0.0043	0.00085	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/01/16 13:10	03/03/16 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	03/01/16 13:10	03/03/16 12:22	1
Dibromofluoromethane	102		75 - 120	03/01/16 13:10	03/03/16 12:22	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/01/16 13:10	03/03/16 12:22	1
Toluene-d8 (Surr)	105		75 - 122	03/01/16 13:10	03/03/16 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0053	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1

TestAmerica Chicago

## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

Client Sample ID: 2633-9-B01 (5-10)

Lab Sample ID: 500-108130-12

Date Collected: 02/29/16 14:15

Matrix: Solid

Date Received: 03/01/16 10:05

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
<b>Benzo[b]fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
<b>Fluoranthene</b>	<b>0.032</b>	<b>J</b>	0.039	0.0073	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.010</b>	<b>J</b>	0.039	0.010	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B01 (5-10)**

**Lab Sample ID: 500-108130-12**

**Date Collected: 02/29/16 14:15**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
<b>Phenanthrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
<b>Pyrene</b>	<b>0.022</b>	<b>J</b>	0.039	0.0079	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/04/16 17:46	03/07/16 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119	03/04/16 17:46	03/07/16 19:19	1
2-Fluorophenol	65		25 - 110	03/04/16 17:46	03/07/16 19:19	1
Nitrobenzene-d5	58		25 - 115	03/04/16 17:46	03/07/16 19:19	1
Phenol-d5	61		31 - 110	03/04/16 17:46	03/07/16 19:19	1
Terphenyl-d14	71		36 - 134	03/04/16 17:46	03/07/16 19:19	1
2,4,6-Tribromophenol	53		35 - 137	03/04/16 17:46	03/07/16 19:19	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Arsenic</b>	<b>7.0</b>		0.57	0.27	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Barium</b>	<b>43</b>		0.57	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Beryllium</b>	<b>0.62</b>		0.23	0.050	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.57	0.099	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Cobalt</b>	<b>11</b>		0.29	0.065	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Copper</b>	<b>24</b>		0.57	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Lead</b>	<b>18</b>		0.29	0.14	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Magnesium</b>	<b>22000</b>		5.7	2.3	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Calcium</b>	<b>33000</b>		11	3.7	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Manganese</b>	<b>210</b>		0.57	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Nickel</b>	<b>34</b>		0.57	0.16	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Thallium</b>	<b>0.55</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Vanadium</b>	<b>19</b>		0.29	0.084	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Zinc</b>	<b>68</b>		1.1	0.36	mg/Kg	☼	03/01/16 15:38	03/03/16 14:38	1
<b>Potassium</b>	<b>1700</b>	<b>B</b>	29	4.7	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1
<b>Sodium</b>	<b>1800</b>		57	7.6	mg/Kg	☼	03/01/16 15:38	03/02/16 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		03/03/16 14:35	03/04/16 18:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 18:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 18:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B01 (5-10)**

**Lab Sample ID: 500-108130-12**

**Date Collected: 02/29/16 14:15**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>420</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 18:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 18:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 18:43	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:43	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
<b>Potassium</b>	<b>3.1</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 18:43	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:43	1
<b>Zinc</b>	<b>0.25</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/02/16 14:29	03/03/16 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:53	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	^	0.00020	0.00020	mg/L		03/03/16 17:30	03/09/16 12:57	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.064</b>		0.020	0.010	mg/Kg	☼	03/02/16 16:00	03/03/16 10:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/04/16 12:35	03/04/16 16:49	1
<b>pH</b>	<b>8.45</b>		0.200	0.200	SU			03/01/16 17:32	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B02 (2.5-7.5)**

**Lab Sample ID: 500-108130-13**

**Date Collected: 02/29/16 13:50**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 76.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,1-Dichloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00094	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Vinyl chloride	<0.0048		0.0048	0.0012	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	03/01/16 13:10	03/03/16 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/01/16 13:10	03/03/16 12:47	1
Dibromofluoromethane	101		75 - 120	03/01/16 13:10	03/03/16 12:47	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	03/01/16 13:10	03/03/16 12:47	1
Toluene-d8 (Surr)	107		75 - 122	03/01/16 13:10	03/03/16 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B02 (2.5-7.5)**

**Lab Sample ID: 500-108130-13**

**Date Collected: 02/29/16 13:50**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 76.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0081	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
4-Chloroaniline	<0.84		0.84	0.20	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2-Methylnaphthalene	<0.041		0.041	0.0077	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B02 (2.5-7.5)**

**Lab Sample ID: 500-108130-13**

**Date Collected: 02/29/16 13:50**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 76.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.40	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
Pyrene	<0.041		0.041	0.0083	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/04/16 17:46	03/08/16 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	03/04/16 17:46	03/08/16 15:14	1
2-Fluorophenol	84		25 - 110	03/04/16 17:46	03/08/16 15:14	1
Nitrobenzene-d5	74		25 - 115	03/04/16 17:46	03/08/16 15:14	1
Phenol-d5	77		31 - 110	03/04/16 17:46	03/08/16 15:14	1
Terphenyl-d14	73		36 - 134	03/04/16 17:46	03/08/16 15:14	1
2,4,6-Tribromophenol	52		35 - 137	03/04/16 17:46	03/08/16 15:14	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Arsenic</b>	<b>14</b>		0.62	0.29	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Barium</b>	<b>93</b>		0.62	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Beryllium</b>	<b>0.80</b>		0.25	0.054	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Chromium</b>	<b>18 B</b>		0.62	0.11	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Cobalt</b>	<b>21</b>		0.31	0.070	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Copper</b>	<b>38</b>		0.62	0.14	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Iron</b>	<b>29000</b>		12	4.8	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Lead</b>	<b>24</b>		0.31	0.16	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Magnesium</b>	<b>4500</b>		6.2	2.5	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Calcium</b>	<b>2500</b>		12	4.0	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Manganese</b>	<b>630</b>		0.62	0.12	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Nickel</b>	<b>57</b>		0.62	0.17	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
Selenium	<0.62		0.62	0.31	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Thallium</b>	<b>1.0</b>		0.62	0.31	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Vanadium</b>	<b>20</b>		0.31	0.091	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Zinc</b>	<b>77</b>		1.2	0.39	mg/Kg	☼	03/01/16 15:38	03/03/16 14:43	1
<b>Potassium</b>	<b>1200 B</b>		31	5.1	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1
<b>Sodium</b>	<b>770</b>		62	8.2	mg/Kg	☼	03/01/16 15:38	03/02/16 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
<b>Barium</b>	<b>0.39 J</b>		0.50	0.050	mg/L		03/03/16 14:35	03/04/16 18:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/03/16 14:35	03/04/16 18:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/03/16 14:35	03/04/16 18:50	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-B02 (2.5-7.5)**

**Lab Sample ID: 500-108130-13**

**Date Collected: 02/29/16 13:50**

**Matrix: Solid**

**Date Received: 03/01/16 10:05**

**Percent Solids: 76.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>65</b>		5.0	0.50	mg/L		03/03/16 14:35	03/04/16 18:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
Copper	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
Iron	<0.40		0.40	0.20	mg/L		03/03/16 14:35	03/04/16 18:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/03/16 14:35	03/04/16 18:50	1
<b>Magnesium</b>	<b>28</b>		2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:50	1
<b>Manganese</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
<b>Potassium</b>	<b>0.61</b>	<b>J</b>	2.5	0.50	mg/L		03/03/16 14:35	03/04/16 18:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/03/16 14:35	03/04/16 18:50	1
Silver	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
Vanadium	<0.025		0.025	0.010	mg/L		03/03/16 14:35	03/04/16 18:50	1
<b>Zinc</b>	<b>0.067</b>	<b>J B</b>	0.50	0.020	mg/L		03/03/16 14:35	03/04/16 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	<sup>^</sup>	0.0060	0.0060	mg/L		03/03/16 14:35	03/09/16 21:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/03/16 14:35	03/09/16 21:54	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/03/16 17:30	03/04/16 13:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.069</b>		0.021	0.011	mg/Kg	☼	03/02/16 16:00	03/03/16 10:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.65		0.65	0.22	mg/Kg	☼	03/04/16 12:35	03/04/16 16:50	1
<b>pH</b>	<b>8.25</b>		0.200	0.200	SU			03/01/16 17:35	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-G01**

**Lab Sample ID: 500-108130-14**

**Date Collected: 02/29/16 15:00**

**Matrix: Water**

**Date Received: 03/01/16 10:05**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0055</b>		0.0050	0.0017	mg/L			03/07/16 17:27	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/07/16 17:27	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/07/16 17:27	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/07/16 17:27	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/07/16 17:27	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/07/16 17:27	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/07/16 17:27	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:27	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			03/07/16 17:27	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			03/07/16 17:27	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/07/16 17:27	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/07/16 17:27	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/07/16 17:27	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/07/16 17:27	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/07/16 17:27	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:27	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:27	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/07/16 17:27	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/07/16 17:27	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/07/16 17:27	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/07/16 17:27	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/07/16 17:27	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/07/16 17:27	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/07/16 17:27	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:27	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:27	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/07/16 17:27	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/07/16 17:27	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/07/16 17:27	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/07/16 17:27	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/07/16 17:27	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/07/16 17:27	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/07/16 17:27	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/07/16 17:27	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/07/16 17:27	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/07/16 17:27	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/07/16 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 120		03/07/16 17:27	1
Dibromofluoromethane	86		75 - 120		03/07/16 17:27	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 125		03/07/16 17:27	1
Toluene-d8 (Surr)	92		75 - 120		03/07/16 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00072		0.00072	0.00022	mg/L		03/01/16 13:45	03/04/16 12:51	1
Acenaphthylene	<0.00072		0.00072	0.00019	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Anthracene</b>	<b>0.00028</b>	<b>J</b>	0.00072	0.00024	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Benzo[a]anthracene</b>	<b>0.0017</b>		0.00012	0.000041	mg/L		03/01/16 13:45	03/04/16 12:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-G01**

**Lab Sample ID: 500-108130-14**

**Date Collected: 02/29/16 15:00**

**Matrix: Water**

**Date Received: 03/01/16 10:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0030</b>		0.00014	0.000071	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Benzo[b]fluoranthene</b>	<b>0.0059</b>		0.00014	0.000058	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Benzo[g,h,i]perylene</b>	<b>0.0029</b>		0.00072	0.00027	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Benzo[k]fluoranthene</b>	<b>0.0025</b>		0.00014	0.000046	mg/L		03/01/16 13:45	03/04/16 12:51	1
Bis(2-chloroethoxy)methane	<0.0014		0.0014	0.00020	mg/L		03/01/16 13:45	03/04/16 12:51	1
Bis(2-chloroethyl)ether	<0.0014		0.0014	0.00021	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.0024</b>	<b>J</b>	0.0072	0.0012	mg/L		03/01/16 13:45	03/04/16 12:51	1
4-Bromophenyl phenyl ether	<0.0036		0.0036	0.00039	mg/L		03/01/16 13:45	03/04/16 12:51	1
Butyl benzyl phthalate	<0.0014		0.0014	0.00035	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Carbazole</b>	<b>0.00031</b>	<b>J</b>	0.0036	0.00026	mg/L		03/01/16 13:45	03/04/16 12:51	1
4-Chloroaniline	<0.0072		0.0072	0.0015	mg/L		03/01/16 13:45	03/04/16 12:51	1
4-Chloro-3-methylphenol	<0.0072		0.0072	0.0017	mg/L		03/01/16 13:45	03/04/16 12:51	1
2-Chloronaphthalene	<0.0014		0.0014	0.00017	mg/L		03/01/16 13:45	03/04/16 12:51	1
2-Chlorophenol	<0.0036		0.0036	0.00040	mg/L		03/01/16 13:45	03/04/16 12:51	1
4-Chlorophenyl phenyl ether	<0.0036		0.0036	0.00046	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Chrysene</b>	<b>0.0024</b>		0.00036	0.000049	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Dibenz(a,h)anthracene</b>	<b>0.00053</b>		0.00022	0.000037	mg/L		03/01/16 13:45	03/04/16 12:51	1
Dibenzofuran	<0.0014		0.0014	0.00019	mg/L		03/01/16 13:45	03/04/16 12:51	1
1,2-Dichlorobenzene	<0.0014		0.0014	0.00018	mg/L		03/01/16 13:45	03/04/16 12:51	1
1,3-Dichlorobenzene	<0.0014		0.0014	0.00015	mg/L		03/01/16 13:45	03/04/16 12:51	1
1,4-Dichlorobenzene	<0.0014		0.0014	0.00015	mg/L		03/01/16 13:45	03/04/16 12:51	1
3,3'-Dichlorobenzidine	<0.0036		0.0036	0.0012	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,4-Dichlorophenol	<0.0072		0.0072	0.0019	mg/L		03/01/16 13:45	03/04/16 12:51	1
Diethyl phthalate	<0.0014		0.0014	0.00026	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,4-Dimethylphenol	<0.0072		0.0072	0.0013	mg/L		03/01/16 13:45	03/04/16 12:51	1
Dimethyl phthalate	<0.0014		0.0014	0.00023	mg/L		03/01/16 13:45	03/04/16 12:51	1
Di-n-butyl phthalate	<0.0036		0.0036	0.00053	mg/L		03/01/16 13:45	03/04/16 12:51	1
4,6-Dinitro-2-methylphenol	<0.014		0.014	0.0043	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,4-Dinitrophenol	<0.014		0.014	0.0062	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,4-Dinitrotoluene	<0.00072		0.00072	0.00018	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,6-Dinitrotoluene	<0.00036		0.00036	0.000053	mg/L		03/01/16 13:45	03/04/16 12:51	1
Di-n-octyl phthalate	<0.0072		0.0072	0.00076	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Fluoranthene</b>	<b>0.0034</b>		0.00072	0.00033	mg/L		03/01/16 13:45	03/04/16 12:51	1
Fluorene	<0.00072		0.00072	0.00018	mg/L		03/01/16 13:45	03/04/16 12:51	1
Hexachlorobenzene	<0.00036		0.00036	0.000057	mg/L		03/01/16 13:45	03/04/16 12:51	1
Hexachlorobutadiene	<0.0036		0.0036	0.00037	mg/L		03/01/16 13:45	03/04/16 12:51	1
Hexachlorocyclopentadiene	<0.014		0.014	0.0046	mg/L		03/01/16 13:45	03/04/16 12:51	1
Hexachloroethane	<0.0036		0.0036	0.00043	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.0026</b>		0.00014	0.000054	mg/L		03/01/16 13:45	03/04/16 12:51	1
Isophorone	<0.0014		0.0014	0.00027	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>2-Methylnaphthalene</b>	<b>0.000079</b>	<b>J</b>	0.00036	0.000047	mg/L		03/01/16 13:45	03/04/16 12:51	1
2-Methylphenol	<0.0014		0.0014	0.00022	mg/L		03/01/16 13:45	03/04/16 12:51	1
3 & 4 Methylphenol	<0.0014		0.0014	0.00032	mg/L		03/01/16 13:45	03/04/16 12:51	1
Naphthalene	<0.00072		0.00072	0.00022	mg/L		03/01/16 13:45	03/04/16 12:51	1
2-Nitroaniline	<0.0036		0.0036	0.00093	mg/L		03/01/16 13:45	03/04/16 12:51	1
3-Nitroaniline	<0.0072		0.0072	0.0013	mg/L		03/01/16 13:45	03/04/16 12:51	1
4-Nitroaniline	<0.0072		0.0072	0.0012	mg/L		03/01/16 13:45	03/04/16 12:51	1
Nitrobenzene	<0.00072		0.00072	0.00032	mg/L		03/01/16 13:45	03/04/16 12:51	1
2-Nitrophenol	<0.0072		0.0072	0.0018	mg/L		03/01/16 13:45	03/04/16 12:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-G01**

**Lab Sample ID: 500-108130-14**

**Date Collected: 02/29/16 15:00**

**Matrix: Water**

**Date Received: 03/01/16 10:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.014		0.014	0.0054	mg/L		03/01/16 13:45	03/04/16 12:51	1
N-Nitrosodi-n-propylamine	<0.00036		0.00036	0.00011	mg/L		03/01/16 13:45	03/04/16 12:51	1
N-Nitrosodiphenylamine	<0.00072		0.00072	0.00027	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,2'-oxybis[1-chloropropane]	<0.0014		0.0014	0.00027	mg/L		03/01/16 13:45	03/04/16 12:51	1
Pentachlorophenol	<0.014		0.014	0.0028	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Phenanthrene</b>	<b>0.00077</b>		0.00072	0.00022	mg/L		03/01/16 13:45	03/04/16 12:51	1
Phenol	<0.0036	*	0.0036	0.00048	mg/L		03/01/16 13:45	03/04/16 12:51	1
<b>Pyrene</b>	<b>0.0034</b>		0.00072	0.00031	mg/L		03/01/16 13:45	03/04/16 12:51	1
1,2,4-Trichlorobenzene	<0.0014		0.0014	0.00017	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,4,5-Trichlorophenol	<0.0072		0.0072	0.0019	mg/L		03/01/16 13:45	03/04/16 12:51	1
2,4,6-Trichlorophenol	<0.0036		0.0036	0.00052	mg/L		03/01/16 13:45	03/04/16 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		41 - 132				03/01/16 13:45	03/04/16 12:51	1
2-Fluorophenol	36		32 - 110				03/01/16 13:45	03/04/16 12:51	1
Nitrobenzene-d5	58		47 - 134				03/01/16 13:45	03/04/16 12:51	1
Phenol-d5	33		25 - 100				03/01/16 13:45	03/04/16 12:51	1
Terphenyl-d14	60		59 - 150				03/01/16 13:45	03/04/16 12:51	1
2,4,6-Tribromophenol	107		53 - 150				03/01/16 13:45	03/04/16 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.0021</b>	<b>J</b>	0.0030	0.0010	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Arsenic</b>	<b>0.022</b>		0.0010	0.00044	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Barium</b>	<b>0.95</b>		0.0025	0.00084	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Beryllium</b>	<b>0.0019</b>		0.0010	0.00024	mg/L		03/02/16 08:18	03/08/16 19:32	1
<b>Cadmium</b>	<b>0.0090</b>		0.00050	0.00019	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Calcium</b>	<b>510</b>		1.0	0.53	mg/L		03/02/16 08:18	03/09/16 18:30	5
<b>Chromium</b>	<b>0.054</b>		0.0050	0.00061	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Cobalt</b>	<b>0.025</b>		0.0010	0.00019	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Copper</b>	<b>0.049</b>		0.0020	0.00096	mg/L		03/02/16 08:18	03/10/16 14:18	1
<b>Iron</b>	<b>27</b>		0.10	0.026	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Lead</b>	<b>1.3</b>		0.00050	0.00014	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Magnesium</b>	<b>120</b>		0.20	0.083	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Manganese</b>	<b>4.8</b>		0.0025	0.00099	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Nickel</b>	<b>0.061</b>		0.0020	0.00053	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Potassium</b>	<b>19</b>		0.50	0.19	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Selenium</b>	<b>0.0069</b>	<b>J</b>	0.013	0.0042	mg/L		03/02/16 08:18	03/09/16 18:30	5
<b>Silver</b>	<b>0.00044</b>	<b>J</b>	0.00050	0.000080	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Sodium</b>	<b>7100</b>	<b>B</b>	10	4.4	mg/L		03/02/16 08:18	03/08/16 19:37	50
<b>Thallium</b>	<b>0.00077</b>	<b>J</b>	0.0020	0.00059	mg/L		03/02/16 08:18	03/04/16 11:43	1
<b>Vanadium</b>	<b>0.050</b>		0.0050	0.0022	mg/L		03/02/16 08:18	03/08/16 19:32	1
<b>Zinc</b>	<b>1.1</b>		0.020	0.0046	mg/L		03/02/16 08:18	03/04/16 11:43	1

## Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		03/01/16 16:00	03/02/16 10:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: 2633-9-G01**

**Lab Sample ID: 500-108130-14**

**Date Collected: 02/29/16 15:00**

**Matrix: Water**

**Date Received: 03/01/16 10:05**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.072		0.010	0.0021	mg/L		03/04/16 12:35	03/04/16 16:47	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-108130-15**

**Date Collected: 02/29/16 00:00**

**Matrix: Water**

**Date Received: 03/01/16 10:05**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			03/07/16 17:54	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/07/16 17:54	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/07/16 17:54	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/07/16 17:54	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/07/16 17:54	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/07/16 17:54	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/07/16 17:54	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:54	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			03/07/16 17:54	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			03/07/16 17:54	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/07/16 17:54	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/07/16 17:54	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/07/16 17:54	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/07/16 17:54	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/07/16 17:54	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:54	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:54	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/07/16 17:54	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/07/16 17:54	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/07/16 17:54	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/07/16 17:54	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/07/16 17:54	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/07/16 17:54	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/07/16 17:54	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:54	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/07/16 17:54	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/07/16 17:54	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/07/16 17:54	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/07/16 17:54	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/07/16 17:54	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/07/16 17:54	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/07/16 17:54	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/07/16 17:54	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/07/16 17:54	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/07/16 17:54	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/07/16 17:54	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/07/16 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 120		03/07/16 17:54	1
Dibromofluoromethane	87		75 - 120		03/07/16 17:54	1
1,2-Dichloroethane-d4 (Surr)	94		75 - 125		03/07/16 17:54	1
Toluene-d8 (Surr)	93		75 - 120		03/07/16 17:54	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

## Qualifiers

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108130-4

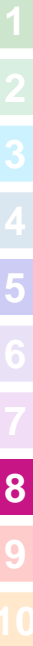
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
Contact: Matt Weiss  
Company: Terracon  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: 630-717-4263  
Fax: 630-357-0499  
E-Mail: Matt.Weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108130  
Chain of Custody Number: \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23 Inorganics		TCLP 23 Inorganics		PH		SPLP 23 Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		VOCS		SVOCs		Comments		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix										
		Date	Time													
<u>11</u>		<u>2633-9-001 (0-5)</u>	<u>2/29/16</u>	<u>2:10</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>HOLD SPLP Analysis</u>
<u>12</u>		<u>2633-9-001 (5-10)</u>	<u>2/29/16</u>	<u>2:15</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>Analysis</u>

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>David Kelly</u>	Company <u>Terracon</u>	Date <u>3/1/16</u>	Time <u>8:20</u>	Received By <u>Daniel Bearden</u>	Company <u>TA</u>	Date <u>3/1/16</u>	Time <u>08:03</u>
Relinquished By <u>Daniel Bearden</u>	Company <u>TA</u>	Date <u>3-1-16</u>	Time <u>10:05</u>	Received By <u>Shawn Smith</u>	Company <u>TA-CAL</u>	Date <u>3/1/16</u>	Time <u>10:05</u>

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

Please meet IL TAO requirements & HOLD SPLP Analysis. Thank you

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4203  
 Fax: 630-357-9489  
 E-Mail: Matt.Weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108130  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23 Inorganics		TCLP 23 Inorganics		PH		SPLP 23 Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Project Location/State		Lab Project #		Lab PM		SAMPLING		# of Containers		Matrix		Comments		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Date		Time		Matrix		Comments			
<u>13</u>		<u>2633-9-BO2 (2.5-7.5)</u>	<u>2/21/16</u>	<u>1:50</u>	<u>5</u>	<u>6</u>	<u>VOCS</u>	<u>SUOCS</u>	<u>TOTAL 23 Inorganics</u>	<u>TCLP 23 Inorganics</u>	<u>PH</u>	<u>SPLP 23 Inorganics</u>	<u>PH</u>	<u>SPLP 23 Inorganics</u>	<u>HOLD SPLP Analysis</u>	

Turnaround Time Required (Business Days)

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

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/1/16</u>	Time <u>8:20</u>	Received By <u>Doreen Bepler</u>	Company <u>TA</u>	Date <u>3-1-16</u>	Time <u>0823</u>
Relinquished By <u>David Berden</u>	Company <u>TA</u>	Date <u>3-1-16</u>	Time <u>10:05</u>	Received By <u>David Berden</u>	Company <u>TA-CAT</u>	Date <u>3/1/16</u>	Time <u>1005</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

Please meet IL TACO Requirements,  
 & HOLD SPLP Analysis. Thank you.

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4267  
 Fax: 630-357-9469  
 E-Mail: Matt.Weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108730  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
11157115											
Labrang, IL											
CTK											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SUOCs	Total 23	Inorganic	Comments
14		2633-9-601	2/22/16	3:00	7	W	✓	✓	✓		
15		Trip Blank	2/22/16		1	W	✓				

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

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

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

Relinquished By <u>Cand Kelly</u>	Company <u>Terracon</u>	Date <u>3/1/16</u>	Time <u>8:20</u>	Received By <u>David Beck</u>	Company <u>TA</u>	Date <u>3-1-16</u>	Time <u>2:52:3</u>
Relinquished By <u>David Beck</u>	Company <u>TA</u>	Date <u>3-1-16</u>	Time <u>10:05</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CTK</u>	Date <u>3/1/16</u>	Time <u>10:05</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: Please meet IL DCO Requirements. Thank you.

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108130-4

**Login Number: 108130**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

Near US 34 and LaGrange Road intersection from IDOT STA 98+10 to 99+20 and 498+70 to 499+40 (ISGS Site 2633-10)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B01, B02, and B04 were sampled adjacent to ISGS Site No 2633-10. See Exhibits 2, 2D, 2E and Table 14 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108249-4 and J108325-1. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B01 (0-5)	2633-10-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/03/2016	03/03/2016
<b>Volatile Organic Analytical Parameters</b>							
Benzene	mg/kg	---	---	0.03		<0.0041	<0.0043
Acetone	mg/kg	---	---	25		<0.016	<0.017
2-Butanone	mg/kg	---	---	17		<0.0041	<0.0043
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		8.5	7.5
Barium	mg/kg	---	110	1500		66	47
Cadmium	mg/kg	---	0.6	5.2		<0.11	<0.12
Chromium, total	mg/kg	---	16.2	21		17	17
Lead	mg/kg	---	36	107		19	15
Mercury	mg/kg	---	0.06	0.1		0.046	0.045
Selenium	mg/kg	---	0.48	1.3		<0.55	0.67
Silver	mg/kg	---	0.55	4.4		<0.28	<0.29
Antimony	mg/kg	---	4.0	5		<1.1	<1.2
Beryllium	mg/kg	---	0.59	22		0.69	0.63
Calcium	mg/kg	---	9,300	---		62000	67000
Cobalt	mg/kg	---	8.9	20		15	18
Copper	mg/kg	---	19.6	2900		25	24
Cyanide	mg/kg	---	0.51	---		<0.58	<0.57
Iron	mg/kg	---	15,900	15000		20000	19000
Magnesium	mg/kg	---	4,820	325000		21000	23000
Manganese	mg/kg	---	636	630		470	450
Nickel	mg/kg	---	18	100		39	38
Potassium	mg/kg	---	1,268	---		2000	2000
Sodium	mg/kg	---	130	---		1900	720
Thallium	mg/kg	---	0.32	2.6		0.62	0.65
Vanadium	mg/kg	---	25.2	550		22	19
Zinc	mg/kg	---	95	5100		54	58
pH			6.25	9		8.48	8.7
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		2.4	0.83
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B01 (0-5)	2633-10-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/03/2016	03/03/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.49	0.21
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		510	520
Cobalt, TCLP	mg/L	---	---	---		<0.025	<0.025
Copper, TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide, TCLP	mg/L	---	---	---		---	---
Iron, TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium, TCLP	mg/L	---	---	---		37	26
Manganese, TCLP	mg/L	---	---	---		2.5	0.66
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		0.85	1.9
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.067	0.83



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B02 (0-5)	2633-10-B02 (0-5) Dup
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/03/2016	03/03/2016
<b>Volatile Organic Analytical Parameters</b>							
Benzene	mg/kg	---	---	0.03		<0.0045	<0.0045
Acetone	mg/kg	---	---	25		0.032	0.024
2-Butanone	mg/kg	---	---	17		<0.0045	<0.0045
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		9	12
Barium	mg/kg	---	110	1500		46	49
Cadmium	mg/kg	---	0.6	5.2		<0.11	<0.12
Chromium, total	mg/kg	---	16.2	21		14	18
Lead	mg/kg	---	36	107		17	26
Mercury	mg/kg	---	0.06	0.1		0.07	0.051
Selenium	mg/kg	---	0.48	1.3		0.41	0.55
Silver	mg/kg	---	0.55	4.4		<0.29	<0.29
Antimony	mg/kg	---	4.0	5		<1.1	<1.2
Beryllium	mg/kg	---	0.59	22		0.69	0.73
Calcium	mg/kg	---	9,300	---		1300	8100
Cobalt	mg/kg	---	8.9	20		16	19
Copper	mg/kg	---	19.6	2900		28	36
Cyanide	mg/kg	---	0.51	---		<0.58	<0.60
Iron	mg/kg	---	15,900	15000		19000	23000
Magnesium	mg/kg	---	4,820	325000		2400	7700
Manganese	mg/kg	---	636	630		580	390
Nickel	mg/kg	---	18	100		41	41
Potassium	mg/kg	---	1,268	---		1400	2000
Sodium	mg/kg	---	130	---		1700	2000
Thallium	mg/kg	---	0.32	2.6		0.58	0.44
Vanadium	mg/kg	---	25.2	550		17	22
Zinc	mg/kg	---	95	5100		73	72
pH			6.25	9		7.34	7.54
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		0.16	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		4.1	3.7
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B02 (0-5)	2633-10-B02 (0-5) Dup
				CCDD	Sample Depth (feet)	(0-5)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/03/2016	03/03/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.55	0.49
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		0.0093	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		97	190
Cobalt, TCLP	mg/L	---	---	---		0.038	0.017
Copper, TCLP	mg/L	---	---	---		0.014	0.012
Cyanide, TCLP	mg/L	---	---	---		---	---
Iron, TCLP	mg/L	---	---	---		0.24	<0.40
Magnesium, TCLP	mg/L	---	---	---		40	97
Manganese, TCLP	mg/L	---	---	---		12	7.3
Nickel, TCLP	mg/L	---	---	---		0.043	0.018
Potassium, TCLP	mg/L	---	---	---		3.8	7.9
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		1.9	0.051

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B02 (5-10)	2633-10-B04 (0-5)
				CCDD	Sample Depth (feet)	(5-10)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/03/2016	03/02/2016
<b>Volatile Organic Analytical Parameters</b>							
Benzene	mg/kg	---	---	0.03		<0.0044	<0.0041
Acetone	mg/kg	---	---	25		0.046	<0.016
2-Butanone	mg/kg	---	---	17		<0.0044	<0.0041
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		8.3	8
Barium	mg/kg	---	110	1500		42	58
Cadmium	mg/kg	---	0.6	5.2		0.041	<0.12
Chromium, total	mg/kg	---	16.2	21		19	18
Lead	mg/kg	---	36	107		19	15
Mercury	mg/kg	---	0.06	0.1		0.041	0.049
Selenium	mg/kg	---	0.48	1.3		0.62	0.72
Silver	mg/kg	---	0.55	4.4		<0.31	<0.29
Antimony	mg/kg	---	4.0	5		<1.2	<1.2
Beryllium	mg/kg	---	0.59	22		0.69	0.7
Calcium	mg/kg	---	9,300	---		4800	67000
Cobalt	mg/kg	---	8.9	20		21	13
Copper	mg/kg	---	19.6	2900		33	24
Cyanide	mg/kg	---	0.51	---		<0.60	<0.55
Iron	mg/kg	---	15,900	15000		23000	19000
Magnesium	mg/kg	---	4,820	325000		6000	21000
Manganese	mg/kg	---	636	630		490	370
Nickel	mg/kg	---	18	100		47	35
Potassium	mg/kg	---	1,268	---		1700	2000
Sodium	mg/kg	---	130	---		1700	2100
Thallium	mg/kg	---	0.32	2.6		0.83	0.38
Vanadium	mg/kg	---	25.2	550		19	21
Zinc	mg/kg	---	95	5100		69	53
pH			6.25	9		7.53	8.81
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		3.2	0.22
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B02 (5-10)	2633-10-B04 (0-5)
				CCDD	Sample Depth (feet)	(5-10)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/03/2016	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.24	0.56
Cadmium, TCLP	mg/L	---	---	---		0.002	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		120	590
Cobalt, TCLP	mg/L	---	---	---		0.051	<0.025
Copper, TCLP	mg/L	---	---	---		<0.025	0.017
Cyanide, TCLP	mg/L	---	---	---		---	---
Iron, TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium, TCLP	mg/L	---	---	---		53	18
Manganese, TCLP	mg/L	---	---	---		8.6	3.9
Nickel, TCLP	mg/L	---	---	---		0.052	<0.025
Potassium, TCLP	mg/L	---	---	---		1.7	1.5
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.042	0.22

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B04 (5-10)
				CCDD	Sample Depth (feet)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Volatile Organic Analytical Parameters</b>						
Benzene	mg/kg	---	---	0.03		0.0033
Acetone	mg/kg	---	---	25		0.051
2-Butanone	mg/kg	---	---	17		0.011
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		7.3
Barium	mg/kg	---	110	1500		41
Cadmium	mg/kg	---	0.6	5.2		<0.12
Chromium, total	mg/kg	---	16.2	21		18
Lead	mg/kg	---	36	107		14
Mercury	mg/kg	---	0.06	0.1		0.01
Selenium	mg/kg	---	0.48	1.3		0.62
Silver	mg/kg	---	0.55	4.4		<0.30
Antimony	mg/kg	---	4.0	5		<1.2
Beryllium	mg/kg	---	0.59	22		0.66
Calcium	mg/kg	---	9,300	---		74000
Cobalt	mg/kg	---	8.9	20		13
Copper	mg/kg	---	19.6	2900		23
Cyanide	mg/kg	---	0.51	---		<0.55
Iron	mg/kg	---	15,900	15000		19000
Magnesium	mg/kg	---	4,820	325000		21000
Manganese	mg/kg	---	636	630		330
Nickel	mg/kg	---	18	100		34
Potassium	mg/kg	---	1,268	---		2200
Sodium	mg/kg	---	130	---		1100
Thallium	mg/kg	---	0.32	2.6		<0.60
Vanadium	mg/kg	---	25.2	550		20
Zinc	mg/kg	---	95	5100		53
pH			6.25	9		8.24
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		1.4
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-10-B04 (5-10)
				CCDD	Sample Depth (feet)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.31
Cadmium, TCLP	mg/L	---	---	---		<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050
Silver, TCLP	mg/L	---	---	---		<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		550
Cobalt, TCLP	mg/L	---	---	---		<0.025
Copper, TCLP	mg/L	---	---	---		0.016
Cyanide, TCLP	mg/L	---	---	---		---
Iron, TCLP	mg/L	---	---	---		<0.40
Magnesium, TCLP	mg/L	---	---	---		29
Manganese, TCLP	mg/L	---	---	---		3.3
Nickel, TCLP	mg/L	---	---	---		<0.025
Potassium, TCLP	mg/L	---	---	---		2.1
Sodium, TCLP	mg/L	---	---	---		---
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		0.17

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108325-1  
Client Project/Site: IDOT - LaGrange - WO 015

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

Attn: Mr. Matthew Weiss



Authorized for release by:  
3/16/2016 4:36:49 PM

Richard Wright, Senior Project Manager  
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### LINKS

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Job ID: 500-108325-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108325-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/4/2016 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 2.7° C and 3.0° C.

#### GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-325852: Vinyl Acetate. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

Method(s) 8260B: The following samples were diluted due to the abundance of target and non-target analytes: 2633-10-B03 (10-15) (500-108325-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following analytes recovered outside control limits for the LCS/LCSD associated with 325772: 1,1,2,2-Tetrachloroethane and Vinyl Acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

#### GC/MS Semi VOA

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: 2633-10-B03 (10-15) (500-108325-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: 500-108325-1 MSD had 2-Fluorophenol and 2,4,6-Tribromophenol biased high. The MS was in control for the surrogate recoveries. No further action was taken.(500-108325-F-1-G MSD)

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 500-326004 had 2 analytes (2,4-Dichlorophenol and 2-Methylnaphthalene) outside control limits, therefore, corrective action was not performed. These results have been reported and qualified. (LCS 500-326004/2-A)

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

#### Metals

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

## Client Sample ID: 2633-10-B01 (0-5)

## Lab Sample ID: 500-108325-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5	F1	0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19	F1	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	470		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	39		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.62		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000	F1	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	510		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	37		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.85	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.067	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.48		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-10-B01 (5-10)

## Lab Sample ID: 500-108325-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	450		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.65		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	720		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

## Client Sample ID: 2633-10-B01 (5-10) (Continued)

## Lab Sample ID: 500-108325-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.83		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.83		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.70		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-10-B02 (0-5)

## Lab Sample ID: 500-108325-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.018	0.0035	mg/Kg	1	☼	8260B	Total/NA
Arsenic	9.0		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	1300	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	580		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	41		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.58		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	97		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0093		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	40		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.9		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	4.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.070		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.34		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-10-B02 (0-5) Dup

## Lab Sample ID: 500-108325-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.018	0.0035	mg/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5) Dup (Continued)**

**Lab Sample ID: 500-108325-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.014	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	19		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	36		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7700	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	8100	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	41		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.44	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	190		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	97		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	7.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.051	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	3.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.051		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.54		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-10-B02 (5-10)**

**Lab Sample ID: 500-108325-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.046		0.018	0.0034	mg/Kg	1	☼	8260B	Total/NA
Arsenic	8.3		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.041	J	0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	21		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	33		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6000	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	4800	B	12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	490		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	47		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

## Client Sample ID: 2633-10-B02 (5-10) (Continued)

## Lab Sample ID: 500-108325-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.83		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	120		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.051		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	53		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.042	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.53		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-10-B03 (0-5)

## Lab Sample ID: 500-108325-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.016	0.0031	mg/Kg	1	☼	8260B	Total/NA
Arsenic	6.9		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.2		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-10-B03 (5-10)

## Lab Sample ID: 500-108325-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (5-10) (Continued)**

**Lab Sample ID: 500-108325-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.011	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	290		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.46	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	3200		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	13		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	3.0		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-10-B03 (10-15)**

**Lab Sample ID: 500-108325-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	6.8		0.013	0.0094	mg/Kg	50	☼	8260B	Total/NA
Toluene	1.4		0.013	0.0076	mg/Kg	50	☼	8260B	Total/NA
Benzene - DL	51		0.13	0.075	mg/Kg	500	☼	8260B	Total/NA
Xylenes, Total - DL	22		0.26	0.11	mg/Kg	500	☼	8260B	Total/NA
Acenaphthene	0.022	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.012	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.044		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.027	J	0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.042		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.085		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene - DL	16	*	0.73	0.13	mg/Kg	20	☼	8270D	Total/NA
Naphthalene - DL	25		0.73	0.11	mg/Kg	20	☼	8270D	Total/NA
Arsenic	5.8		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	8.8		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.075	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.7	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (10-15) (Continued)**

**Lab Sample ID: 500-108325-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	7.7		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	220		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.52		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	980		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	770		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0085		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.1		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.025		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.067		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.052		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	7.70		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108325-1	2633-10-B01 (0-5)	Solid	03/03/16 09:05	03/04/16 08:45
500-108325-2	2633-10-B01 (5-10)	Solid	03/03/16 09:10	03/04/16 08:45
500-108325-3	2633-10-B02 (0-5)	Solid	03/03/16 09:40	03/04/16 08:45
500-108325-4	2633-10-B02 (0-5) Dup	Solid	03/03/16 09:45	03/04/16 08:45
500-108325-5	2633-10-B02 (5-10)	Solid	03/03/16 09:50	03/04/16 08:45
500-108325-6	2633-10-B03 (0-5)	Solid	03/03/16 10:25	03/04/16 08:45
500-108325-7	2633-10-B03 (5-10)	Solid	03/03/16 10:30	03/04/16 08:45
500-108325-8	2633-10-B03 (10-15)	Solid	03/03/16 10:35	03/04/16 08:45





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (0-5)**

**Lab Sample ID: 500-108325-1**

**Date Collected: 03/03/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,1,2,2-Tetrachloroethane	<0.0041	*	0.0041	0.00064	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/04/16 09:15	03/06/16 11:19	1
Dibromofluoromethane	106		75 - 120	03/04/16 09:15	03/06/16 11:19	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 09:15	03/06/16 11:19	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 09:15	03/06/16 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039	F1 F2	0.039	0.0071	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Acenaphthylene	<0.039	F2	0.039	0.0052	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (0-5)**

**Lab Sample ID: 500-108325-1**

**Date Collected: 03/03/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Benzo[g,h,i]perylene	<0.039	F1	0.039	0.013	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Bis(2-chloroethoxy)methane	<0.20	F1 F2	0.20	0.041	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Bis(2-chloroethyl)ether	<0.20	F2	0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
4-Chloroaniline	<0.80	F2	0.80	0.19	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
4-Chloro-3-methylphenol	<0.39	F1 F2	0.39	0.14	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Dibenz(a,h)anthracene	<0.039	F1	0.039	0.0077	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
1,2-Dichlorobenzene	<0.20	F1	0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
1,3-Dichlorobenzene	<0.20	F2	0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
1,4-Dichlorobenzene	<0.20	F1 F2	0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,4-Dichlorophenol	<0.39	* F1 F2	0.39	0.094	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,4-Dimethylphenol	<0.39	F2	0.39	0.15	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Dimethyl phthalate	<0.20	F1 F2	0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,4-Dinitrophenol	<0.80	F1	0.80	0.70	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,4-Dinitrotoluene	<0.20	F2	0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Hexachlorobutadiene	<0.20	F1 F2	0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Hexachlorocyclopentadiene	<0.80	F1	0.80	0.23	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Hexachloroethane	<0.20	F1	0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Indeno[1,2,3-cd]pyrene	<0.039	F1	0.039	0.010	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Isophorone	<0.20	F1	0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2-Methylnaphthalene	<0.039	* F1	0.039	0.0073	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2-Methylphenol	<0.20	F2	0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
3 & 4 Methylphenol	<0.20	F1 F2	0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Naphthalene	<0.039	F1 F2	0.039	0.0061	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2-Nitroaniline	<0.20	F2	0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
3-Nitroaniline	<0.39	F2	0.39	0.12	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
4-Nitroaniline	<0.39	F2	0.39	0.17	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Nitrobenzene	<0.039	F1	0.039	0.0099	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2-Nitrophenol	<0.39	F1 F2	0.39	0.094	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (0-5)**

**Lab Sample ID: 500-108325-1**

**Date Collected: 03/03/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
1,2,4-Trichlorobenzene	<0.20	F1	0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,4,5-Trichlorophenol	<0.39	F1 F2	0.39	0.091	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/08/16 07:41	03/09/16 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		25 - 119	03/08/16 07:41	03/09/16 23:00	1
2-Fluorophenol	75		25 - 110	03/08/16 07:41	03/09/16 23:00	1
Nitrobenzene-d5	67		25 - 115	03/08/16 07:41	03/09/16 23:00	1
Phenol-d5	72		31 - 110	03/08/16 07:41	03/09/16 23:00	1
Terphenyl-d14	76		36 - 134	03/08/16 07:41	03/09/16 23:00	1
2,4,6-Tribromophenol	52		35 - 137	03/08/16 07:41	03/09/16 23:00	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.23	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Arsenic</b>	<b>8.5</b>	<b>F1</b>	0.55	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Barium</b>	<b>66</b>		0.55	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Beryllium</b>	<b>0.69</b>		0.22	0.048	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Cobalt</b>	<b>15</b>		0.28	0.063	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Copper</b>	<b>25</b>		0.55	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Iron</b>	<b>20000</b>		11	4.3	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Lead</b>	<b>19</b>	<b>F1</b>	0.28	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Calcium</b>	<b>62000</b>	<b>B</b>	110	36	mg/Kg	☼	03/08/16 16:09	03/10/16 02:42	10
<b>Manganese</b>	<b>470</b>		0.55	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Nickel</b>	<b>39</b>		0.55	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
Selenium	<0.55	F1	0.55	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Thallium</b>	<b>0.62</b>		0.55	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Vanadium</b>	<b>22</b>		0.28	0.081	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Zinc</b>	<b>54</b>		1.1	0.35	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Potassium</b>	<b>2000</b>	<b>F1</b>	28	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1
<b>Sodium</b>	<b>1900</b>		55	7.3	mg/Kg	☼	03/08/16 16:09	03/10/16 00:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 18:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 18:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (0-5)**

**Lab Sample ID: 500-108325-1**

**Date Collected: 03/03/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>510</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 18:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 18:11	1
<b>Magnesium</b>	<b>37</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:11	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
<b>Potassium</b>	<b>0.85 J</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 18:11	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:11	1
<b>Zinc</b>	<b>0.067 J</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:09	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:09	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 14:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.046</b>		0.017	0.0091	mg/Kg	☼	03/04/16 17:00	03/07/16 12:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/09/16 16:30	03/10/16 18:44	1
<b>pH</b>	<b>8.48</b>		0.200	0.200	SU			03/04/16 16:47	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (5-10)**

**Lab Sample ID: 500-108325-2**

**Date Collected: 03/03/16 09:10**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,1,2,2-Tetrachloroethane	<0.0043 *		0.0043	0.00068	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Vinyl acetate	<0.0043 *		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 09:15	03/06/16 11:44	1
Dibromofluoromethane	105		75 - 120	03/04/16 09:15	03/06/16 11:44	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/04/16 09:15	03/06/16 11:44	1
Toluene-d8 (Surr)	106		75 - 122	03/04/16 09:15	03/06/16 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (5-10)**

**Lab Sample ID: 500-108325-2**

**Date Collected: 03/03/16 09:10**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,4-Dichlorophenol	<0.39 *		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2-Methylnaphthalene	<0.039 *		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (5-10)**

**Lab Sample ID: 500-108325-2**

**Date Collected: 03/03/16 09:10**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/09/16 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		25 - 119	03/08/16 07:41	03/09/16 23:26	1
2-Fluorophenol	78		25 - 110	03/08/16 07:41	03/09/16 23:26	1
Nitrobenzene-d5	65		25 - 115	03/08/16 07:41	03/09/16 23:26	1
Phenol-d5	67		31 - 110	03/08/16 07:41	03/09/16 23:26	1
Terphenyl-d14	65		36 - 134	03/08/16 07:41	03/09/16 23:26	1
2,4,6-Tribromophenol	50		35 - 137	03/08/16 07:41	03/09/16 23:26	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Arsenic</b>	<b>7.5</b>		0.58	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Barium</b>	<b>47</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.050	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Cobalt</b>	<b>18</b>		0.29	0.065	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	5.8	2.3	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Calcium</b>	<b>67000</b>	<b>B</b>	120	37	mg/Kg	☼	03/08/16 16:09	03/10/16 03:10	10
<b>Manganese</b>	<b>450</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Nickel</b>	<b>38</b>		0.58	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Selenium</b>	<b>0.67</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Thallium</b>	<b>0.65</b>		0.58	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Vanadium</b>	<b>19</b>		0.29	0.084	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Zinc</b>	<b>58</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Potassium</b>	<b>2000</b>		29	4.7	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1
<b>Sodium</b>	<b>720</b>		58	7.6	mg/Kg	☼	03/08/16 16:09	03/10/16 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 18:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 18:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 18:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B01 (5-10)**

**Lab Sample ID: 500-108325-2**

**Date Collected: 03/03/16 09:10**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>520</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 18:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 18:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 18:17	1
<b>Magnesium</b>	<b>26</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:17	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
<b>Potassium</b>	<b>1.9 J</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 18:17	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:17	1
<b>Zinc</b>	<b>0.83</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.83</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 05:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:13	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:13	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 14:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.045</b>		0.019	0.0098	mg/Kg	☼	03/04/16 17:00	03/07/16 12:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/09/16 16:30	03/10/16 18:44	1
<b>pH</b>	<b>8.70</b>		0.200	0.200	SU			03/04/16 17:14	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5)**

**Lab Sample ID: 500-108325-3**

**Date Collected: 03/03/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.032</b>		0.018	0.0035	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,1,1,2-Tetrachloroethane	<0.0045 *		0.0045	0.00072	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/04/16 09:15	03/06/16 12:09	1
Dibromofluoromethane	107		75 - 120	03/04/16 09:15	03/06/16 12:09	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/04/16 09:15	03/06/16 12:09	1
Toluene-d8 (Surr)	102		75 - 122	03/04/16 09:15	03/06/16 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5)**

**Lab Sample ID: 500-108325-3**

**Date Collected: 03/03/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,4-Dichlorophenol	<0.40 *		0.40	0.096	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2-Methylnaphthalene	<0.040 *		0.040	0.0074	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5)**

**Lab Sample ID: 500-108325-3**

**Date Collected: 03/03/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/08/16 07:41	03/09/16 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	03/08/16 07:41	03/09/16 23:52	1
2-Fluorophenol	78		25 - 110	03/08/16 07:41	03/09/16 23:52	1
Nitrobenzene-d5	69		25 - 115	03/08/16 07:41	03/09/16 23:52	1
Phenol-d5	44		31 - 110	03/08/16 07:41	03/09/16 23:52	1
Terphenyl-d14	71		36 - 134	03/08/16 07:41	03/09/16 23:52	1
2,4,6-Tribromophenol	45		35 - 137	03/08/16 07:41	03/09/16 23:52	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Arsenic</b>	<b>9.0</b>		0.57	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Barium</b>	<b>46</b>		0.57	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.049	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Cobalt</b>	<b>16</b>		0.29	0.065	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Copper</b>	<b>28</b>		0.57	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Lead</b>	<b>17</b>		0.29	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Magnesium</b>	<b>2400</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Calcium</b>	<b>1300</b>	<b>B</b>	11	3.7	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Manganese</b>	<b>580</b>		0.57	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Nickel</b>	<b>41</b>		0.57	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Selenium</b>	<b>0.41</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Thallium</b>	<b>0.58</b>		0.57	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Vanadium</b>	<b>17</b>		0.29	0.083	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Zinc</b>	<b>73</b>		1.1	0.36	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Potassium</b>	<b>1400</b>		29	4.7	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1
<b>Sodium</b>	<b>1700</b>		57	7.5	mg/Kg	☼	03/08/16 16:09	03/10/16 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 18:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 18:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 18:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5)**

**Lab Sample ID: 500-108325-3**

**Date Collected: 03/03/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 18:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
Cobalt	0.038		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
Copper	0.014	J	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
Iron	0.24	J	0.40	0.20	mg/L		03/10/16 14:47	03/11/16 18:24	1
Lead	0.0093		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 18:24	1
Magnesium	40		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:24	1
Manganese	12		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
Nickel	0.043		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
Potassium	3.8		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 18:24	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:24	1
Zinc	1.9		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 18:24	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.16		0.0075	0.0075	mg/L		03/10/16 16:43	03/12/16 05:18	1
Manganese	4.1		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 05:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:17	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:17	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 14:55	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.070		0.019	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 12:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/09/16 16:30	03/10/16 18:45	1
pH	7.34		0.200	0.200	SU			03/04/16 17:28	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5) Dup**

**Lab Sample ID: 500-108325-4**

**Date Collected: 03/03/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.024</b>		0.018	0.0035	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,1,1,2-Tetrachloroethane	<0.0045 *		0.0045	0.00071	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 09:15	03/06/16 12:34	1
Dibromofluoromethane	104		75 - 120	03/04/16 09:15	03/06/16 12:34	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 09:15	03/06/16 12:34	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 09:15	03/06/16 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5) Dup**

**Lab Sample ID: 500-108325-4**

**Date Collected: 03/03/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,4-Dichlorophenol	<0.40 *		0.40	0.096	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.32	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
<b>Fluoranthene</b>	<b>0.014 J</b>		0.040	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2-Methylnaphthalene	<0.040 *		0.040	0.0074	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5) Dup**

**Lab Sample ID: 500-108325-4**

**Date Collected: 03/03/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.38	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	43		25 - 119	03/08/16 07:41	03/10/16 00:18	1
2-Fluorophenol	75		25 - 110	03/08/16 07:41	03/10/16 00:18	1
Nitrobenzene-d5	71		25 - 115	03/08/16 07:41	03/10/16 00:18	1
Phenol-d5	40		31 - 110	03/08/16 07:41	03/10/16 00:18	1
Terphenyl-d14	72		36 - 134	03/08/16 07:41	03/10/16 00:18	1
2,4,6-Tribromophenol	55		35 - 137	03/08/16 07:41	03/10/16 00:18	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Arsenic</b>	<b>12</b>		0.58	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Barium</b>	<b>49</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Beryllium</b>	<b>0.73</b>		0.23	0.051	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Chromium</b>	<b>18 B</b>		0.58	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Cobalt</b>	<b>19</b>		0.29	0.066	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Copper</b>	<b>36</b>		0.58	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Iron</b>	<b>23000</b>		12	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Lead</b>	<b>26</b>		0.29	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Magnesium</b>	<b>7700 B</b>		5.8	2.4	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Calcium</b>	<b>8100 B</b>		12	3.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Manganese</b>	<b>390</b>		0.58	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Nickel</b>	<b>41</b>		0.58	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Selenium</b>	<b>0.55 J</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Thallium</b>	<b>0.44 J</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Vanadium</b>	<b>22</b>		0.29	0.085	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Zinc</b>	<b>72</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Potassium</b>	<b>2000</b>		29	4.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1
<b>Sodium</b>	<b>2000</b>		58	7.7	mg/Kg	☼	03/08/16 16:09	03/10/16 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
<b>Barium</b>	<b>0.49 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 18:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 18:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (0-5) Dup**

**Lab Sample ID: 500-108325-4**

**Date Collected: 03/03/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
Cobalt	0.017	J	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
Copper	0.012	J	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 18:47	1
Magnesium	97		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:47	1
Manganese	7.3		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
Nickel	0.018	J	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
Potassium	7.9		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 18:47	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:47	1
Zinc	0.051	J	0.50	0.020	mg/L		03/10/16 14:47	03/11/16 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.7		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 05:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:21	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:21	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 14:57	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.020	0.011	mg/Kg	☼	03/04/16 17:00	03/07/16 12:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	03/09/16 16:30	03/10/16 18:46	1
pH	7.54		0.200	0.200	SU			03/04/16 17:41	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (5-10)**

**Lab Sample ID: 500-108325-5**

Date Collected: 03/03/16 09:50

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.046		0.018	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Benzene	<0.0044		0.0044	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Bromoform	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Chloroform	<0.0044		0.0044	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,1,2,2-Tetrachloroethane	<0.0044 *		0.0044	0.00070	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Vinyl acetate	<0.0044 *		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 09:15	03/06/16 12:59	1
Dibromofluoromethane	108		75 - 120	03/04/16 09:15	03/06/16 12:59	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 09:15	03/06/16 12:59	1
Toluene-d8 (Surr)	106		75 - 122	03/04/16 09:15	03/06/16 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (5-10)**

**Lab Sample ID: 500-108325-5**

**Date Collected: 03/03/16 09:50**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 78.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,4-Dichlorophenol	<0.40 *		0.40	0.097	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2-Methylnaphthalene	<0.040 *		0.040	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (5-10)**

**Lab Sample ID: 500-108325-5**

**Date Collected: 03/03/16 09:50**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 78.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		25 - 119	03/08/16 07:41	03/10/16 00:43	1
2-Fluorophenol	84		25 - 110	03/08/16 07:41	03/10/16 00:43	1
Nitrobenzene-d5	70		25 - 115	03/08/16 07:41	03/10/16 00:43	1
Phenol-d5	74		31 - 110	03/08/16 07:41	03/10/16 00:43	1
Terphenyl-d14	79		36 - 134	03/08/16 07:41	03/10/16 00:43	1
2,4,6-Tribromophenol	41		35 - 137	03/08/16 07:41	03/10/16 00:43	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Arsenic</b>	<b>8.3</b>		0.61	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Barium</b>	<b>42</b>		0.61	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Beryllium</b>	<b>0.69</b>		0.25	0.053	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Cadmium</b>	<b>0.041</b>	<b>J</b>	0.12	0.036	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.61	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Cobalt</b>	<b>21</b>		0.31	0.069	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Copper</b>	<b>33</b>		0.61	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Iron</b>	<b>23000</b>		12	4.7	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Lead</b>	<b>19</b>		0.31	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Magnesium</b>	<b>6000</b>	<b>B</b>	6.1	2.5	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Calcium</b>	<b>4800</b>	<b>B</b>	12	4.0	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Manganese</b>	<b>490</b>		0.61	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Nickel</b>	<b>47</b>		0.61	0.17	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Selenium</b>	<b>0.62</b>		0.61	0.30	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Thallium</b>	<b>0.83</b>		0.61	0.30	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Vanadium</b>	<b>19</b>		0.31	0.090	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Zinc</b>	<b>69</b>		1.2	0.39	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Potassium</b>	<b>1700</b>		31	5.0	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1
<b>Sodium</b>	<b>1700</b>		61	8.1	mg/Kg	☼	03/08/16 16:09	03/10/16 01:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 18:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B02 (5-10)**

**Lab Sample ID: 500-108325-5**

**Date Collected: 03/03/16 09:50**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 78.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>120</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 18:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Cobalt</b>	<b>0.051</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 18:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Magnesium</b>	<b>53</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Manganese</b>	<b>8.6</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Nickel</b>	<b>0.052</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Potassium</b>	<b>1.7 J</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 18:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 18:53	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 18:53	1
<b>Zinc</b>	<b>0.042 J</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>3.2</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 05:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:26	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:26	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 14:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.041</b>		0.020	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 12:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	03/09/16 16:30	03/10/16 18:46	1
<b>pH</b>	<b>7.53</b>		0.200	0.200	SU			03/04/16 17:55	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (0-5)**

**Lab Sample ID: 500-108325-6**

**Date Collected: 03/03/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.017</b>		0.016	0.0031	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,1,1,2-Tetrachloroethane	<0.0040 *		0.0040	0.00063	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 09:15	03/06/16 13:24	1
Dibromofluoromethane	104		75 - 120	03/04/16 09:15	03/06/16 13:24	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/04/16 09:15	03/06/16 13:24	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 09:15	03/06/16 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (0-5)**

**Lab Sample ID: 500-108325-6**

**Date Collected: 03/03/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,4-Dichlorophenol	<0.39 *		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2-Methylnaphthalene	<0.039 *		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (0-5)**

**Lab Sample ID: 500-108325-6**

**Date Collected: 03/03/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	03/08/16 07:41	03/10/16 01:09	1
2-Fluorophenol	76		25 - 110	03/08/16 07:41	03/10/16 01:09	1
Nitrobenzene-d5	64		25 - 115	03/08/16 07:41	03/10/16 01:09	1
Phenol-d5	54		31 - 110	03/08/16 07:41	03/10/16 01:09	1
Terphenyl-d14	68		36 - 134	03/08/16 07:41	03/10/16 01:09	1
2,4,6-Tribromophenol	47		35 - 137	03/08/16 07:41	03/10/16 01:09	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Arsenic</b>	<b>6.9</b>		0.59	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Barium</b>	<b>47</b>		0.59	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Beryllium</b>	<b>0.66</b>		0.24	0.051	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Chromium</b>	<b>17 B</b>		0.59	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Cobalt</b>	<b>13</b>		0.30	0.067	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Copper</b>	<b>25</b>		0.59	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Iron</b>	<b>18000</b>		12	4.6	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Lead</b>	<b>15</b>		0.30	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Magnesium</b>	<b>27000 B</b>		5.9	2.4	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Calcium</b>	<b>66000 B</b>		120	38	mg/Kg	☼	03/08/16 16:09	03/10/16 03:27	10
<b>Manganese</b>	<b>320</b>		0.59	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Nickel</b>	<b>36</b>		0.59	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Thallium</b>	<b>0.41 J</b>		0.59	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Vanadium</b>	<b>20</b>		0.30	0.086	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Zinc</b>	<b>53</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Potassium</b>	<b>2300</b>		30	4.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1
<b>Sodium</b>	<b>1500</b>		59	7.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
<b>Barium</b>	<b>0.42 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:00	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (0-5)**

**Lab Sample ID: 500-108325-6**

**Date Collected: 03/03/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:00	1
<b>Magnesium</b>	<b>19</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:00	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
<b>Potassium</b>	<b>4.2</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:00	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:00	1
<b>Zinc</b>	<b>0.14 J</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:30	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:30	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:01	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.031</b>		0.019	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 12:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/09/16 16:30	03/10/16 18:47	1
<b>pH</b>	<b>8.28</b>		0.200	0.200	SU			03/04/16 18:08	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (5-10)**

**Lab Sample ID: 500-108325-7**

**Date Collected: 03/03/16 10:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	03/04/16 09:15	03/07/16 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 09:15	03/07/16 09:56	1
Dibromofluoromethane	103		75 - 120	03/04/16 09:15	03/07/16 09:56	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/04/16 09:15	03/07/16 09:56	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 09:15	03/07/16 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (5-10)**

**Lab Sample ID: 500-108325-7**

**Date Collected: 03/03/16 10:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,4-Dichlorophenol	<0.39 *		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2-Methylnaphthalene	<0.039 *		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (5-10)**

**Lab Sample ID: 500-108325-7**

**Date Collected: 03/03/16 10:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
<b>Phenanthrene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119	03/08/16 07:41	03/10/16 01:35	1
2-Fluorophenol	76		25 - 110	03/08/16 07:41	03/10/16 01:35	1
Nitrobenzene-d5	63		25 - 115	03/08/16 07:41	03/10/16 01:35	1
Phenol-d5	57		31 - 110	03/08/16 07:41	03/10/16 01:35	1
Terphenyl-d14	72		36 - 134	03/08/16 07:41	03/10/16 01:35	1
2,4,6-Tribromophenol	51		35 - 137	03/08/16 07:41	03/10/16 01:35	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Arsenic</b>	<b>5.8</b>		0.59	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Barium</b>	<b>37</b>		0.59	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Beryllium</b>	<b>0.65</b>		0.24	0.051	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.59	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Cobalt</b>	<b>9.8</b>		0.29	0.067	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Copper</b>	<b>23</b>		0.59	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Iron</b>	<b>18000</b>		12	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Lead</b>	<b>15</b>		0.29	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Calcium</b>	<b>63000</b>	<b>B</b>	120	38	mg/Kg	☼	03/08/16 16:09	03/10/16 03:31	10
<b>Manganese</b>	<b>290</b>		0.59	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Nickel</b>	<b>30</b>		0.59	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Selenium</b>	<b>0.71</b>		0.59	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Thallium</b>	<b>0.46</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Vanadium</b>	<b>20</b>		0.29	0.086	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Zinc</b>	<b>57</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Potassium</b>	<b>2300</b>		29	4.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1
<b>Sodium</b>	<b>3200</b>		59	7.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (5-10)**

**Lab Sample ID: 500-108325-7**

**Date Collected: 03/03/16 10:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>420</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:07	1
<b>Magnesium</b>	<b>13</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:07	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:07	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:07	1
<b>Zinc</b>	<b>3.0</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 06:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:34	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:34	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:03	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.045</b>		0.019	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 12:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/09/16 16:30	03/10/16 18:47	1
<b>pH</b>	<b>7.96</b>		0.200	0.200	SU			03/04/16 18:22	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (10-15)**

**Lab Sample ID: 500-108325-8**

**Date Collected: 03/03/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 88.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.26		0.26	0.089	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Bromodichloromethane	<0.051		0.051	0.019	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Bromoform	<0.051		0.051	0.025	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Bromomethane	<0.10		0.10	0.041	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
2-Butanone (MEK)	<0.26		0.26	0.11	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Carbon disulfide	<0.10		0.10	0.041	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Carbon tetrachloride	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Chlorobenzene	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Chloroethane	<0.051		0.051	0.026	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Chloroform	<0.051		0.051	0.019	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Chloromethane	<0.051		0.051	0.016	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
cis-1,2-Dichloroethene	<0.051		0.051	0.021	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
cis-1,3-Dichloropropene	<0.051		0.051	0.021	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Dibromochloromethane	<0.051		0.051	0.025	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,1-Dichloroethane	<0.051		0.051	0.021	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,2-Dichloroethane	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,1-Dichloroethene	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,2-Dichloropropane	<0.051		0.051	0.022	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,3-Dichloropropene, Total	<0.051		0.051	0.021	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
<b>Ethylbenzene</b>	<b>6.8</b>		0.013	0.0094	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
2-Hexanone	<0.26		0.26	0.080	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Methylene Chloride	<0.26		0.26	0.084	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
4-Methyl-2-pentanone (MIBK)	<0.26		0.26	0.11	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Methyl tert-butyl ether	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Styrene	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,1,2,2-Tetrachloroethane	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Tetrachloroethene	<0.051		0.051	0.019	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
<b>Toluene</b>	<b>1.4</b>		0.013	0.0076	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
trans-1,2-Dichloroethene	<0.051		0.051	0.018	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
trans-1,3-Dichloropropene	<0.051		0.051	0.019	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,1,1-Trichloroethane	<0.051		0.051	0.020	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
1,1,2-Trichloroethane	<0.051		0.051	0.018	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Trichloroethene	<0.026		0.026	0.0084	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Vinyl acetate	<0.10		0.10	0.046	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50
Vinyl chloride	<0.026		0.026	0.013	mg/Kg	☼	03/03/16 10:35	03/11/16 11:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 120	03/03/16 10:35	03/11/16 11:11	50
Dibromofluoromethane	83		75 - 120	03/03/16 10:35	03/11/16 11:11	50
1,2-Dichloroethane-d4 (Surr)	91		75 - 125	03/03/16 10:35	03/11/16 11:11	50
Toluene-d8 (Surr)	95		75 - 120	03/03/16 10:35	03/11/16 11:11	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>51</b>		0.13	0.075	mg/Kg	☼	03/03/16 10:35	03/11/16 11:39	500
<b>Xylenes, Total</b>	<b>22</b>		0.26	0.11	mg/Kg	☼	03/03/16 10:35	03/11/16 11:39	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120	03/03/16 10:35	03/11/16 11:39	500
Dibromofluoromethane	82		75 - 120	03/03/16 10:35	03/11/16 11:39	500

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (10-15)**

**Lab Sample ID: 500-108325-8**

**Date Collected: 03/03/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 88.7**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 125	03/03/16 10:35	03/11/16 11:39	500
Toluene-d8 (Surr)	92		75 - 120	03/03/16 10:35	03/11/16 11:39	500

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.022</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
<b>Anthracene</b>	<b>0.012</b>	<b>J</b>	0.036	0.0061	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
<b>Chrysene</b>	<b>0.044</b>		0.036	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,4-Dichlorophenol	<0.36 *		0.36	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
<b>Fluoranthene</b>	<b>0.027</b>	<b>J</b>	0.036	0.0068	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
<b>Fluorene</b>	<b>0.042</b>		0.036	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (10-15)**

**Lab Sample ID: 500-108325-8**

**Date Collected: 03/03/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 88.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
<b>Phenanthrene</b>	<b>0.12</b>		0.036	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
<b>Pyrene</b>	<b>0.085</b>		0.036	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	03/08/16 07:41	03/10/16 02:01	1
2-Fluorophenol	60		25 - 110	03/08/16 07:41	03/10/16 02:01	1
Nitrobenzene-d5	44		25 - 115	03/08/16 07:41	03/10/16 02:01	1
Phenol-d5	64		31 - 110	03/08/16 07:41	03/10/16 02:01	1
Terphenyl-d14	105		36 - 134	03/08/16 07:41	03/10/16 02:01	1
2,4,6-Tribromophenol	81		35 - 137	03/08/16 07:41	03/10/16 02:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	16	*	0.73	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 13:42	20
Naphthalene	25		0.73	0.11	mg/Kg	☼	03/08/16 07:41	03/10/16 13:42	20

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Arsenic</b>	<b>5.8</b>		0.52	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Barium</b>	<b>8.8</b>		0.52	0.095	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Beryllium</b>	<b>0.38</b>		0.21	0.045	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Cadmium</b>	<b>0.075</b>	J	0.10	0.030	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Chromium</b>	<b>7.7</b>	B	0.52	0.089	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Cobalt</b>	<b>7.7</b>		0.26	0.059	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Copper</b>	<b>27</b>		0.52	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Iron</b>	<b>12000</b>		10	4.0	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Lead</b>	<b>16</b>		0.26	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Magnesium</b>	<b>22000</b>	B	5.2	2.1	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Calcium</b>	<b>51000</b>	B	100	33	mg/Kg	☼	03/08/16 16:09	03/10/16 03:35	10
<b>Manganese</b>	<b>220</b>		0.52	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
<b>Nickel</b>	<b>22</b>		0.52	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

**Client Sample ID: 2633-10-B03 (10-15)**

**Lab Sample ID: 500-108325-8**

**Date Collected: 03/03/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 88.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.52		0.52	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
Vanadium	10		0.26	0.076	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
Zinc	73		1.0	0.33	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
Potassium	980		26	4.2	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1
Sodium	770		52	6.9	mg/Kg	☼	03/08/16 16:09	03/10/16 01:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Barium	0.19	J	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:14	1
Calcium	320		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Cobalt	0.022	J	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:14	1
Lead	0.0085		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:14	1
Magnesium	81		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:14	1
Manganese	1.6		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Nickel	0.038		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Potassium	4.1		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:14	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:14	1
Zinc	0.11	J	0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:14	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.025		0.0075	0.0075	mg/L		03/10/16 16:43	03/12/16 06:08	1
Manganese	0.067		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 06:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:38	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:38	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.017	0.0089	mg/Kg	☼	03/04/16 17:00	03/07/16 12:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.16	mg/Kg	☼	03/09/16 16:30	03/10/16 18:47	1
pH	7.70		0.200	0.200	SU			03/04/16 18:35	1

TestAmerica Chicago



# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-1

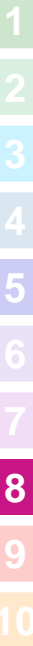
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60  
Phone: 708.534.5200 Fax: 708.534



500-108325 COC

Report To (optional)  
Contact: Matt Weiss  
Company: Terracon  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: 030-717-4263  
Fax: 030-357-9489  
E-Mail: Matt.Weisse@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108325

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: 2, 1, 3, 0, 2, 7

Client		Client Project #		Preservative		Parameter		Preservative Key					
		<u>1157115</u>						1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other					
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM					
		<u>Lebrang, IL</u>				<u>GTK</u>							
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 23 Inorganics	TCLP 23 Inorganics	pH	SPLP 23 Inorganics	Comments
			Date	Time									
<u>1</u>		<u>2633-10-001 (0-S)</u>	<u>3/3/16</u>	<u>9:05</u>	<u>6 S</u>		✓	✓	✓	✓	✓		<u>HOLD SPLP</u>
<u>2</u>		<u>2633-10-001 (5-10)</u>	<u>3/3/16</u>	<u>9:10</u>	<u>6 S</u>		✓	✓	✓	✓	✓		<u>Analysis</u>
<u>3</u>		<u>2633-10-002 (0-S)</u>	<u>3/3/16</u>	<u>9:40</u>	<u>6 S</u>		✓	✓	✓	✓	✓		
<u>4</u>		<u>2633-10-002 (0-S) Dup</u>	<u>3/3/16</u>	<u>9:45</u>	<u>6 S</u>		✓	✓	✓	✓	✓		
<u>5</u>		<u>2633-10-002 (5-10)</u>	<u>3/3/16</u>	<u>9:50</u>	<u>6 S</u>		✓	✓	✓	✓	✓		
<u>6</u>		<u>2633-10-003 (0-S)</u>	<u>3/3/16</u>	<u>10:25</u>	<u>6 S</u>		✓	✓	✓	✓	✓		
<u>7</u>		<u>2633-10-003 (5-10)</u>	<u>3/3/16</u>	<u>10:30</u>	<u>6 S</u>		✓	✓	✓	✓	✓		
<u>8</u>		<u>2633-10-003 (10-15)</u>	<u>3/3/16</u>	<u>10:35</u>	<u>6 S</u>		✓	✓	✓	✓	✓		

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Requested Due Date \_\_\_\_\_

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/4/16</u>	Time <u>800</u>	Received By <u>David Beaman</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>0800</u>
Relinquished By <u>David Beaman</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>0845</u>	Received By <u>Shawn Kato</u>	Company <u>TA-CAL</u>	Date <u>3/4/16</u>	Time <u>0845</u>

Lab Courier: TA  
Shipped: \_\_\_\_\_  
Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

met IL TACO Requirements & please HOLD SPLP Analysis. Thank you.

Lab Comments:

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108325-1

**Login Number: 108325**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.0,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108249-4

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/15/2016 2:17:09 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Job ID: 500-108249-4**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108249-4

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

#### GC/MS VOA

Method(s) 8260B: The following samples were diluted due to the abundance of target and/or non-target analytes: 2633-10-B05 (0-5) (500-108249-12) and 2633-10-B05 (5-10) (500-108249-13). Elevated reporting limits (RLs) are provided.

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

#### GC/MS Semi VOA

Method(s) 8270D: The following sample contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2633-10-B04 (0-5) (500-108249-10). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-10-B04 (0-5) (500-108249-10), 2633-10-B04 (5-10) (500-108249-11), 2633-10-B05 (0-5) (500-108249-12) and 2633-10-B05 (5-10) (500-108249-13) were non-detects for Cadmium, therefore the data has been reported..

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (0-5)**

**Lab Sample ID: 500-108249-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.72		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	590		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	18		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.9		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.049		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.81		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-10-B04 (5-10)**

**Lab Sample ID: 500-108249-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.051		0.017	0.0032	mg/Kg	1	☼	8260B	Total/NA
Benzene	0.0033	J	0.0042	0.00092	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.011		0.0042	0.0015	mg/Kg	1	☼	8260B	Total/NA
Arsenic	7.3		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	74000	B	120	39	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

## Client Sample ID: 2633-10-B04 (5-10) (Continued)

## Lab Sample ID: 500-108249-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2200		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	29		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.24		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-10-B05 (0-5)

## Lab Sample ID: 500-108249-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	45		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	27000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3800		6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	2400	B	12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	44		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.78		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	130		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	53		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.078	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.32		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.087		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.89		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-10-B05 (5-10)

## Lab Sample ID: 500-108249-13

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (5-10) (Continued)**

**Lab Sample ID: 500-108249-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	0.16		0.014	0.0084	mg/Kg	50	☼		8260B	Total/NA
Toluene	0.030		0.014	0.0084	mg/Kg	50	☼		8260B	Total/NA
Arsenic	6.3		0.57	0.26	mg/Kg	1	☼		6010B	Total/NA
Barium	38		0.57	0.10	mg/Kg	1	☼		6010B	Total/NA
Beryllium	0.67		0.23	0.049	mg/Kg	1	☼		6010B	Total/NA
Chromium	18	B	0.57	0.097	mg/Kg	1	☼		6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼		6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1	☼		6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	☼		6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼		6010B	Total/NA
Magnesium	21000		5.7	2.3	mg/Kg	1	☼		6010B	Total/NA
Calcium	34000	B	11	3.6	mg/Kg	1	☼		6010B	Total/NA
Manganese	340		0.57	0.11	mg/Kg	1	☼		6010B	Total/NA
Nickel	34		0.57	0.15	mg/Kg	1	☼		6010B	Total/NA
Selenium	0.49	J	0.57	0.28	mg/Kg	1	☼		6010B	Total/NA
Thallium	0.32	J	0.57	0.28	mg/Kg	1	☼		6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼		6010B	Total/NA
Zinc	64		1.1	0.36	mg/Kg	1	☼		6010B	Total/NA
Potassium	2100		28	4.6	mg/Kg	1	☼		6010B	Total/NA
Sodium	1100		57	7.5	mg/Kg	1	☼		6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1			6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	61		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	6.3		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.31	J B	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.018		0.018	0.0094	mg/Kg	1	☼		7471B	Total/NA
pH	7.95		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-10	2633-10-B04 (0-5)	Solid	03/02/16 11:15	03/03/16 09:15
500-108249-11	2633-10-B04 (5-10)	Solid	03/02/16 11:20	03/03/16 09:15
500-108249-12	2633-10-B05 (0-5)	Solid	03/02/16 12:05	03/03/16 09:15
500-108249-13	2633-10-B05 (5-10)	Solid	03/02/16 12:10	03/03/16 09:15

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (0-5)**

**Lab Sample ID: 500-108249-10**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Bromodichloromethane	<0.0041		0.0041	0.00068	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/03/16 12:55	03/04/16 16:33	1
Dibromofluoromethane	108		75 - 120	03/03/16 12:55	03/04/16 16:33	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/03/16 12:55	03/04/16 16:33	1
Toluene-d8 (Surr)	113		75 - 122	03/03/16 12:55	03/04/16 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (0-5)**

**Lab Sample ID: 500-108249-10**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (0-5)**

**Lab Sample ID: 500-108249-10**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		25 - 119	03/05/16 17:18	03/07/16 18:56	1
2-Fluorophenol	71		25 - 110	03/05/16 17:18	03/07/16 18:56	1
Nitrobenzene-d5	87		25 - 115	03/05/16 17:18	03/07/16 18:56	1
Phenol-d5	60		31 - 110	03/05/16 17:18	03/07/16 18:56	1
Terphenyl-d14	142	X	36 - 134	03/05/16 17:18	03/07/16 18:56	1
2,4,6-Tribromophenol	42		35 - 137	03/05/16 17:18	03/07/16 18:56	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Arsenic</b>	<b>8.0</b>		0.58	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Barium</b>	<b>58</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Beryllium</b>	<b>0.70</b>		0.23	0.050	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Cobalt</b>	<b>13</b>		0.29	0.065	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Copper</b>	<b>24</b>		0.58	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Magnesium</b>	<b>21000</b>		5.8	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Calcium</b>	<b>67000</b>	<b>B</b>	120	37	mg/Kg	☼	03/04/16 15:32	03/05/16 22:19	10
<b>Manganese</b>	<b>370</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Nickel</b>	<b>35</b>		0.58	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Selenium</b>	<b>0.72</b>		0.58	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Thallium</b>	<b>0.38</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Vanadium</b>	<b>21</b>		0.29	0.085	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Zinc</b>	<b>53</b>		1.2	0.37	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Potassium</b>	<b>2000</b>		29	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1
<b>Sodium</b>	<b>2100</b>		58	7.6	mg/Kg	☼	03/04/16 15:32	03/05/16 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 04:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 04:50	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 04:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (0-5)**

**Lab Sample ID: 500-108249-10**

**Date Collected: 03/02/16 11:15**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>590</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 04:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 04:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 04:50	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:50	1
<b>Manganese</b>	<b>3.9</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
<b>Potassium</b>	<b>1.5</b>	<b>J</b>	2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 04:50	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:50	1
<b>Zinc</b>	<b>0.22</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 04:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.22</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:10	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.049</b>		0.019	0.010	mg/Kg	☼	03/04/16 12:35	03/07/16 10:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/06/16 16:50	03/06/16 21:38	1
<b>pH</b>	<b>8.81</b>		0.200	0.200	SU			03/05/16 10:19	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (5-10)**

**Lab Sample ID: 500-108249-11**

Date Collected: 03/02/16 11:20

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.051		0.017	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Benzene	0.0033	J	0.0042	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
2-Butanone (MEK)	0.011		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Chloroethane	<0.0042		0.0042	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Methylene Chloride	<0.0042		0.0042	0.0031	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Styrene	<0.0042		0.0042	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Toluene	<0.0042		0.0042	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	03/03/16 12:55	03/04/16 16:58	1
Dibromofluoromethane	114		75 - 120	03/03/16 12:55	03/04/16 16:58	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	03/03/16 12:55	03/04/16 16:58	1
Toluene-d8 (Surr)	99		75 - 122	03/03/16 12:55	03/04/16 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (5-10)**

**Lab Sample ID: 500-108249-11**

**Date Collected: 03/02/16 11:20**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (5-10)**

**Lab Sample ID: 500-108249-11**

Date Collected: 03/02/16 11:20

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	03/05/16 17:18	03/07/16 22:49	1
2-Fluorophenol	95		25 - 110	03/05/16 17:18	03/07/16 22:49	1
Nitrobenzene-d5	79		25 - 115	03/05/16 17:18	03/07/16 22:49	1
Phenol-d5	87		31 - 110	03/05/16 17:18	03/07/16 22:49	1
Terphenyl-d14	80		36 - 134	03/05/16 17:18	03/07/16 22:49	1
2,4,6-Tribromophenol	61		35 - 137	03/05/16 17:18	03/07/16 22:49	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Arsenic</b>	<b>7.3</b>		0.60	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Barium</b>	<b>41</b>		0.60	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Beryllium</b>	<b>0.66</b>		0.24	0.052	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Cobalt</b>	<b>13</b>		0.30	0.068	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Copper</b>	<b>23</b>		0.60	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Iron</b>	<b>19000</b>		12	4.6	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Lead</b>	<b>14</b>		0.30	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Magnesium</b>	<b>21000</b>		6.0	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Calcium</b>	<b>74000</b>	<b>B</b>	120	39	mg/Kg	☼	03/04/16 15:32	03/05/16 22:23	10
<b>Manganese</b>	<b>330</b>		0.60	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Nickel</b>	<b>34</b>		0.60	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Selenium</b>	<b>0.62</b>		0.60	0.30	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Vanadium</b>	<b>20</b>		0.30	0.088	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Zinc</b>	<b>53</b>		1.2	0.38	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Potassium</b>	<b>2200</b>		30	4.9	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1
<b>Sodium</b>	<b>1100</b>		60	7.9	mg/Kg	☼	03/04/16 15:32	03/05/16 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 04:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 04:57	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 04:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B04 (5-10)**

**Lab Sample ID: 500-108249-11**

**Date Collected: 03/02/16 11:20**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 04:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 04:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 04:57	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:57	1
<b>Manganese</b>	<b>3.3</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
<b>Potassium</b>	<b>2.1</b>	<b>J</b>	2.5	0.50	mg/L		03/07/16 08:47	03/08/16 04:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 04:57	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 04:57	1
<b>Zinc</b>	<b>0.17</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:14	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:29	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.010</b>	<b>J</b>	0.019	0.0099	mg/Kg	☼	03/04/16 12:35	03/07/16 10:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/08/16 12:30	03/08/16 17:32	1
<b>pH</b>	<b>8.24</b>		0.200	0.200	SU			03/05/16 10:21	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (0-5)**

**Lab Sample ID: 500-108249-12**

**Date Collected: 03/02/16 12:05**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.30		0.30	0.10	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Benzene	<0.015		0.015	0.0087	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Bromodichloromethane	<0.060		0.060	0.022	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Bromoform	<0.060		0.060	0.029	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Bromomethane	<0.12		0.12	0.048	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
2-Butanone (MEK)	<0.30		0.30	0.13	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Carbon disulfide	<0.12		0.12	0.048	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Carbon tetrachloride	<0.060		0.060	0.023	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Chlorobenzene	<0.060		0.060	0.023	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Chloroethane	<0.060		0.060	0.030	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Chloroform	<0.060		0.060	0.022	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Chloromethane	<0.060		0.060	0.019	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
cis-1,2-Dichloroethene	<0.060		0.060	0.024	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
cis-1,3-Dichloropropene	<0.060		0.060	0.025	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Dibromochloromethane	<0.060		0.060	0.029	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,1-Dichloroethane	<0.060		0.060	0.025	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,2-Dichloroethane	<0.060		0.060	0.023	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,1-Dichloroethene	<0.060		0.060	0.023	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,2-Dichloropropane	<0.060		0.060	0.026	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,3-Dichloropropene, Total	<0.060		0.060	0.025	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Ethylbenzene	<0.015		0.015	0.011	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
2-Hexanone	<0.30		0.30	0.093	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Methylene Chloride	<0.30		0.30	0.097	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
4-Methyl-2-pentanone (MIBK)	<0.30		0.30	0.13	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Methyl tert-butyl ether	<0.060		0.060	0.024	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Styrene	<0.060		0.060	0.023	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,1,2,2-Tetrachloroethane	<0.060		0.060	0.024	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Tetrachloroethene	<0.060		0.060	0.022	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Toluene	<0.015		0.015	0.0088	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
trans-1,2-Dichloroethene	<0.060		0.060	0.021	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
trans-1,3-Dichloropropene	<0.060		0.060	0.022	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,1,1-Trichloroethane	<0.060		0.060	0.023	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
1,1,2-Trichloroethane	<0.060		0.060	0.021	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Trichloroethene	<0.030		0.030	0.0098	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Vinyl acetate	<0.12		0.12	0.054	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Vinyl chloride	<0.030		0.030	0.016	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50
Xylenes, Total	<0.030		0.030	0.013	mg/Kg	☼	03/02/16 12:05	03/09/16 16:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 120	03/02/16 12:05	03/09/16 16:03	50
Dibromofluoromethane	96		75 - 120	03/02/16 12:05	03/09/16 16:03	50
1,2-Dichloroethane-d4 (Surr)	97		75 - 125	03/02/16 12:05	03/09/16 16:03	50
Toluene-d8 (Surr)	100		75 - 120	03/02/16 12:05	03/09/16 16:03	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (0-5)**

**Lab Sample ID: 500-108249-12**

**Date Collected: 03/02/16 12:05**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (0-5)**

**Lab Sample ID: 500-108249-12**

Date Collected: 03/02/16 12:05

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	03/05/16 17:18	03/07/16 23:15	1
2-Fluorophenol	97		25 - 110	03/05/16 17:18	03/07/16 23:15	1
Nitrobenzene-d5	82		25 - 115	03/05/16 17:18	03/07/16 23:15	1
Phenol-d5	93		31 - 110	03/05/16 17:18	03/07/16 23:15	1
Terphenyl-d14	94		36 - 134	03/05/16 17:18	03/07/16 23:15	1
2,4,6-Tribromophenol	73		35 - 137	03/05/16 17:18	03/07/16 23:15	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Arsenic</b>	<b>13</b>		0.61	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Barium</b>	<b>41</b>		0.61	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Beryllium</b>	<b>0.77</b>		0.25	0.053	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Chromium</b>	<b>16 B</b>		0.61	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Cobalt</b>	<b>15</b>		0.31	0.069	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Copper</b>	<b>45</b>		0.61	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Iron</b>	<b>27000</b>		12	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Lead</b>	<b>35</b>		0.31	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Magnesium</b>	<b>3800</b>		6.1	2.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Calcium</b>	<b>2400 B</b>		12	4.0	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Manganese</b>	<b>320</b>		0.61	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Nickel</b>	<b>44</b>		0.61	0.17	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Selenium</b>	<b>0.82</b>		0.61	0.30	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Thallium</b>	<b>0.78</b>		0.61	0.30	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Vanadium</b>	<b>19</b>		0.31	0.090	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Zinc</b>	<b>78</b>		1.2	0.39	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Potassium</b>	<b>1700</b>		31	5.0	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1
<b>Sodium</b>	<b>2000</b>		61	8.1	mg/Kg	☼	03/04/16 15:32	03/05/16 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
<b>Barium</b>	<b>0.40 J</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 05:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 05:04	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 05:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (0-5)**

**Lab Sample ID: 500-108249-12**

**Date Collected: 03/02/16 12:05**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 05:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
Cobalt	0.020	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
Copper	0.016	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 05:04	1
Lead	0.013		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 05:04	1
Magnesium	53		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:04	1
Manganese	6.1		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
Nickel	0.028		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
Potassium	4.8		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 05:04	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:04	1
Zinc	0.078	J B	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 05:04	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.32		0.0075	0.0075	mg/L		03/07/16 08:45	03/09/16 04:00	1
Manganese	2.6		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:15	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:31	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.018	0.0096	mg/Kg	☼	03/04/16 12:35	03/07/16 10:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	03/08/16 12:30	03/08/16 17:32	1
pH	8.89		0.200	0.200	SU			03/05/16 10:24	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (5-10)**

**Lab Sample ID: 500-108249-13**

**Date Collected: 03/02/16 12:10**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.29		0.29	0.099	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
<b>Benzene</b>	<b>0.16</b>		0.014	0.0084	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Bromodichloromethane	<0.057		0.057	0.021	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Bromoform	<0.057		0.057	0.028	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Bromomethane	<0.11		0.11	0.046	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
2-Butanone (MEK)	<0.29		0.29	0.12	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Carbon disulfide	<0.11		0.11	0.046	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Carbon tetrachloride	<0.057		0.057	0.022	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Chlorobenzene	<0.057		0.057	0.022	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Chloroethane	<0.057		0.057	0.029	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Chloroform	<0.057		0.057	0.021	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Chloromethane	<0.057		0.057	0.018	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
cis-1,2-Dichloroethene	<0.057		0.057	0.023	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
cis-1,3-Dichloropropene	<0.057		0.057	0.024	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Dibromochloromethane	<0.057		0.057	0.028	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,1-Dichloroethane	<0.057		0.057	0.024	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,2-Dichloroethane	<0.057		0.057	0.022	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,1-Dichloroethene	<0.057		0.057	0.022	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,2-Dichloropropane	<0.057		0.057	0.025	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,3-Dichloropropene, Total	<0.057		0.057	0.024	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Ethylbenzene	<0.014		0.014	0.010	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
2-Hexanone	<0.29		0.29	0.089	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Methylene Chloride	<0.29		0.29	0.094	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
4-Methyl-2-pentanone (MIBK)	<0.29		0.29	0.12	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Methyl tert-butyl ether	<0.057		0.057	0.023	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Styrene	<0.057		0.057	0.022	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,1,2,2-Tetrachloroethane	<0.057		0.057	0.023	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Tetrachloroethene	<0.057		0.057	0.021	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
<b>Toluene</b>	<b>0.030</b>		0.014	0.0084	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
trans-1,2-Dichloroethene	<0.057		0.057	0.020	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
trans-1,3-Dichloropropene	<0.057		0.057	0.021	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,1,1-Trichloroethane	<0.057		0.057	0.022	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
1,1,2-Trichloroethane	<0.057		0.057	0.020	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Trichloroethene	<0.029		0.029	0.0094	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Vinyl acetate	<0.11		0.11	0.052	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Vinyl chloride	<0.029		0.029	0.015	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50
Xylenes, Total	<0.029		0.029	0.013	mg/Kg	☼	03/02/16 12:10	03/09/16 16:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 120	03/02/16 12:10	03/09/16 16:30	50
Dibromofluoromethane	97		75 - 120	03/02/16 12:10	03/09/16 16:30	50
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	03/02/16 12:10	03/09/16 16:30	50
Toluene-d8 (Surr)	101		75 - 120	03/02/16 12:10	03/09/16 16:30	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0073	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Anthracene	<0.041		0.041	0.0068	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (5-10)**

**Lab Sample ID: 500-108249-13**

**Date Collected: 03/02/16 12:10**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0079	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Benzo[b]fluoranthene	<0.041		0.041	0.0088	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Fluorene	<0.041		0.041	0.0057	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (5-10)**

**Lab Sample ID: 500-108249-13**

Date Collected: 03/02/16 12:10

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Pentachlorophenol	<0.82		0.82	0.66	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
Pyrene	<0.041		0.041	0.0081	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/05/16 17:18	03/07/16 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	03/05/16 17:18	03/07/16 23:41	1
2-Fluorophenol	81		25 - 110	03/05/16 17:18	03/07/16 23:41	1
Nitrobenzene-d5	67		25 - 115	03/05/16 17:18	03/07/16 23:41	1
Phenol-d5	79		31 - 110	03/05/16 17:18	03/07/16 23:41	1
Terphenyl-d14	89		36 - 134	03/05/16 17:18	03/07/16 23:41	1
2,4,6-Tribromophenol	58		35 - 137	03/05/16 17:18	03/07/16 23:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Arsenic</b>	<b>6.3</b>		0.57	0.26	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Barium</b>	<b>38</b>		0.57	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Beryllium</b>	<b>0.67</b>		0.23	0.049	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Chromium</b>	<b>18 B</b>		0.57	0.097	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Cobalt</b>	<b>12</b>		0.28	0.064	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Copper</b>	<b>25</b>		0.57	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Lead</b>	<b>15</b>		0.28	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Magnesium</b>	<b>21000</b>		5.7	2.3	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Calcium</b>	<b>34000 B</b>		11	3.6	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Manganese</b>	<b>340</b>		0.57	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Nickel</b>	<b>34</b>		0.57	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Selenium</b>	<b>0.49 J</b>		0.57	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Thallium</b>	<b>0.32 J</b>		0.57	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Vanadium</b>	<b>19</b>		0.28	0.083	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Zinc</b>	<b>64</b>		1.1	0.36	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Potassium</b>	<b>2100</b>		28	4.6	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1
<b>Sodium</b>	<b>1100</b>		57	7.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
<b>Barium</b>	<b>0.34 J</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 05:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 05:10	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 05:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

**Client Sample ID: 2633-10-B05 (5-10)**

**Lab Sample ID: 500-108249-13**

**Date Collected: 03/02/16 12:10**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 05:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
Cobalt	0.019	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
Copper	0.011	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 05:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 05:10	1
Magnesium	61		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:10	1
Manganese	6.3		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
Nickel	0.018	J	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
Potassium	2.6		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 05:10	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:10	1
Zinc	0.31	J B	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 05:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:16	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0094	mg/Kg	☼	03/04/16 12:35	03/07/16 10:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/08/16 12:30	03/08/16 17:32	1
pH	7.95		0.200	0.200	SU			03/05/16 10:29	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-4

## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-357-9489  
 E-Mail: Matt.Weiss@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108249  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23 Inorganics		TCLP 23 Inorganics		pH		SPLP 23 Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other				
Project Name		Lab Project #		Project Location/State		Lab PM		VOCs		SVOCs		Total 23 Inorganics		TCLP 23 Inorganics			pH		SPLP 23 Inorganics	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs		SVOCs		Total 23 Inorganics		TCLP 23 Inorganics		pH		SPLP 23 Inorganics		Comments	
10		2633-10-B04 (0-5)	3/2/16	11:15	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	HOLD SPLP
11		2633-10-B04 (5-10)	3/2/16	11:20	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Analysis
12		2633-10-B05 (0-5)	3/2/16	12:05	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13		2633-10-B05 (5-10)	3/2/16	12:10	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

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

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/3/16</u>	Time <u>820</u>	Received By <u>Dave Beaman</u>	Company <u>TA</u>	Date <u>3-3-16</u>	Time <u>0828</u>
Relinquished By <u>Dave Beaman</u>	Company <u>TA</u>	Date <u>3-3-16</u>	Time <u>0915</u>	Received By <u>MW</u>	Company <u>TA-OH</u>	Date <u>3/3/16</u>	Time <u>0915</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: Matt IL TACO Requirements & please HOLD SPLP Analysis. Thank you.

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-4

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

LaGrange Road (near US 34 and LaGrange Road) intersection from IDOT STA 496+92 to 498+00 (ISGS Site 2633-11)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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



Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B01 was sampled adjacent to ISGS Site No 2633-11.  
See Exhibits 3, 3A, and Table 16 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108249-5. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-11-B01 (0-5)	2633-11-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
<b>Semivolatile Organic Analytical Parameters</b>							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	0.0077
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.017
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.031
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.037	0.016
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	0.013
Chrysene	mg/kg	1.2	2.7	88		<0.037	0.02
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	0.017
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.037	0.016
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	0.0064
Pyrene	mg/kg	1.9	3.0	2300		<0.037	0.018
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		6.6	6.3
Barium	mg/kg	---	110	1500		60	43
Cadmium	mg/kg	---	0.6	5.2		<0.12	<0.12
Chromium, total	mg/kg	---	16.2	21		17	19
Lead	mg/kg	---	36	107		13	14
Mercury	mg/kg	---	0.06	0.1		0.032	0.032
Selenium	mg/kg	---	0.48	1.3		0.6	0.67
Silver	mg/kg	---	0.55	4.4		<0.29	<0.29
Antimony	mg/kg	---	4.0	5		<1.2	<1.2
Beryllium	mg/kg	---	0.59	22		0.71	0.72
Calcium	mg/kg	---	9,300	---		75000	62000
Cobalt	mg/kg	---	8.9	20		13	19
Copper	mg/kg	---	19.6	2900		22	23
Cyanide	mg/kg	---	0.51	---		<0.56	<0.59
Iron	mg/kg	---	15,900	15000		19000	19000
Magnesium	mg/kg	---	4,820	325000		21000	21000
Manganese	mg/kg	---	636	630		310	400
Nickel	mg/kg	---	18	100		33	39
Potassium	mg/kg	---	1,268	---		1800	2400
Sodium	mg/kg	---	130	---		2100	1600
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.58
Vanadium	mg/kg	---	25.2	550		18	21
Zinc	mg/kg	---	95	5100		52	54
pH			6.25	9		8.99	8.45
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-11-B01 (0-5)	2633-11-B01 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.38	0.079
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.37	0.23
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		520	520
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		36	31
Manganese,TCLP	mg/L	---	---	---		0.29	0.82
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.6	2.4
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.34	0.16

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108249-5

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/15/2016 2:17:38 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

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**Job ID: 500-108249-5**

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**Laboratory: TestAmerica Chicago**

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## Narrative

### Job Narrative 500-108249-5

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

#### GC/MS VOA

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

#### GC/MS Semi VOA

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

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-11-B01 (0-5) (500-108249-14), 2633-11-B01 (5-10) (500-108249-15) and (500-108249-F-18-G) were non-detects for Cadmium, therefore the data has been reported..

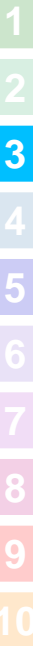
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

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

#### Organic Prep

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



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (0-5)**

**Lab Sample ID: 500-108249-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	36		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.34	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-11-B01 (5-10)**

**Lab Sample ID: 500-108249-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0077	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.017	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.031	J	0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0064	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	19		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	120	38	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (5-10) (Continued)**

**Lab Sample ID: 500-108249-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	400		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	39		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.26		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-14	2633-11-B01 (0-5)	Solid	03/02/16 12:50	03/03/16 09:15
500-108249-15	2633-11-B01 (5-10)	Solid	03/02/16 12:55	03/03/16 09:15

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (0-5)**

**Lab Sample ID: 500-108249-14**

Date Collected: 03/02/16 12:50

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Bromodichloromethane	<0.0044		0.0044	0.00073	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
2-Butanone (MEK)	<0.0044		0.0044	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,2-Dichloroethane	<0.0044		0.0044	0.00064	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Tetrachloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/03/16 12:55	03/04/16 17:24	1
Dibromofluoromethane	115		75 - 120	03/03/16 12:55	03/04/16 17:24	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/03/16 12:55	03/04/16 17:24	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/04/16 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (0-5)**

**Lab Sample ID: 500-108249-14**

**Date Collected: 03/02/16 12:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (0-5)**

**Lab Sample ID: 500-108249-14**

**Date Collected: 03/02/16 12:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	03/05/16 17:18	03/08/16 00:06	1
2-Fluorophenol	79		25 - 110	03/05/16 17:18	03/08/16 00:06	1
Nitrobenzene-d5	70		25 - 115	03/05/16 17:18	03/08/16 00:06	1
Phenol-d5	73		31 - 110	03/05/16 17:18	03/08/16 00:06	1
Terphenyl-d14	75		36 - 134	03/05/16 17:18	03/08/16 00:06	1
2,4,6-Tribromophenol	55		35 - 137	03/05/16 17:18	03/08/16 00:06	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Arsenic</b>	<b>6.6</b>		0.58	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Barium</b>	<b>60</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Beryllium</b>	<b>0.71</b>		0.23	0.050	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Chromium</b>	<b>17 B</b>		0.58	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Copper</b>	<b>22</b>		0.58	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Lead</b>	<b>13</b>		0.29	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Magnesium</b>	<b>21000</b>		5.8	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Calcium</b>	<b>75000 B</b>		120	37	mg/Kg	☼	03/04/16 15:32	03/05/16 22:35	10
<b>Manganese</b>	<b>310</b>		0.58	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Nickel</b>	<b>33</b>		0.58	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Selenium</b>	<b>0.60</b>		0.58	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Vanadium</b>	<b>18</b>		0.29	0.085	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Zinc</b>	<b>52</b>		1.2	0.37	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Potassium</b>	<b>1800</b>		29	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1
<b>Sodium</b>	<b>2100</b>		58	7.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
<b>Barium</b>	<b>0.37 J</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 05:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 05:17	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 05:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (0-5)**

**Lab Sample ID: 500-108249-14**

**Date Collected: 03/02/16 12:50**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>520</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 05:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 05:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 05:17	1
<b>Magnesium</b>	<b>36</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:17	1
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
<b>Potassium</b>	<b>1.6 J</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 05:17	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:17	1
<b>Zinc</b>	<b>0.34 J B</b>		0.50	0.020	mg/L		03/07/16 08:47	03/08/16 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 04:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:17	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:35	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.032</b>		0.018	0.0093	mg/Kg	☼	03/04/16 12:35	03/07/16 10:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/08/16 12:30	03/08/16 17:33	1
<b>pH</b>	<b>8.33</b>		0.200	0.200	SU			03/05/16 10:31	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (5-10)**

**Lab Sample ID: 500-108249-15**

**Date Collected: 03/02/16 12:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/03/16 12:55	03/04/16 17:49	1
Dibromofluoromethane	105		75 - 120	03/03/16 12:55	03/04/16 17:49	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/03/16 12:55	03/04/16 17:49	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/04/16 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
<b>Benzo[a]anthracene</b>	<b>0.0077</b>	<b>J</b>	0.038	0.0052	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (5-10)**

**Lab Sample ID: 500-108249-15**

**Date Collected: 03/02/16 12:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.017	J	0.038	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Benzo[b]fluoranthene	0.031	J	0.038	0.0084	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Benzo[k]fluoranthene	0.013	J	0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Chrysene	0.020	J	0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Fluoranthene	0.017	J	0.038	0.0072	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.038	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (5-10)**

**Lab Sample ID: 500-108249-15**

Date Collected: 03/02/16 12:55

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
<b>Phenanthrene</b>	<b>0.0064</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	03/05/16 17:18	03/08/16 00:32	1
2-Fluorophenol	82		25 - 110	03/05/16 17:18	03/08/16 00:32	1
Nitrobenzene-d5	70		25 - 115	03/05/16 17:18	03/08/16 00:32	1
Phenol-d5	78		31 - 110	03/05/16 17:18	03/08/16 00:32	1
Terphenyl-d14	89		36 - 134	03/05/16 17:18	03/08/16 00:32	1
2,4,6-Tribromophenol	63		35 - 137	03/05/16 17:18	03/08/16 00:32	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Arsenic</b>	<b>6.3</b>		0.58	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Barium</b>	<b>43</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Beryllium</b>	<b>0.72</b>		0.23	0.051	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Cobalt</b>	<b>19</b>		0.29	0.066	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Copper</b>	<b>23</b>		0.58	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Lead</b>	<b>14</b>		0.29	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Magnesium</b>	<b>21000</b>		5.8	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Calcium</b>	<b>62000</b>	<b>B</b>	120	38	mg/Kg	☼	03/04/16 15:32	03/05/16 22:39	10
<b>Manganese</b>	<b>400</b>		0.58	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Nickel</b>	<b>39</b>		0.58	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Selenium</b>	<b>0.67</b>		0.58	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Vanadium</b>	<b>21</b>		0.29	0.085	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Zinc</b>	<b>54</b>		1.2	0.37	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Potassium</b>	<b>2400</b>		29	4.8	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1
<b>Sodium</b>	<b>1600</b>		58	7.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 05:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 05:24	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 05:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

**Client Sample ID: 2633-11-B01 (5-10)**

**Lab Sample ID: 500-108249-15**

**Date Collected: 03/02/16 12:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>520</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 05:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
Copper	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 05:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 05:24	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:24	1
<b>Manganese</b>	<b>0.82</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
<b>Potassium</b>	<b>2.4 J</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 05:24	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:24	1
<b>Zinc</b>	<b>0.16 J B</b>		0.50	0.020	mg/L		03/07/16 08:47	03/08/16 05:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.079</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:18	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:36	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.032</b>		0.020	0.010	mg/Kg	☼	03/04/16 12:35	03/07/16 10:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	03/08/16 12:30	03/08/16 17:33	1
<b>pH</b>	<b>8.26</b>		0.200	0.200	SU			03/05/16 10:34	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

## Qualifiers

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-5

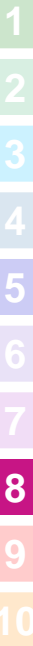
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Report To (optional) \_\_\_\_\_  
 Contact: Matt Weiss  
 Company: Terracon  
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Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108249  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative										Preservative Key	
		<u>1157115</u>												1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name				Parameter											
Project Location/State		Lab Project #													
<u>Labrange, IL</u>															
Sampler		Lab PM													
<u>CTK</u>															
Lab ID	M/S/MSD	Sample ID	Sampling		# of Containers	Matrix									Comments
			Date	Time											
<u>14</u>		<u>2633-11-001 (0-5)</u>	<u>3/2/16</u>	<u>12:50</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>HOLD SPLP Analysis</u>
<u>15</u>		<u>2633-11-001 (5-10)</u>	<u>3/2/16</u>	<u>12:55</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

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

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/2/16</u>	Time <u>8:20</u>	Received By <u>David Becken</u>	Company <u>TTA</u>	Date <u>3/3/16</u>	Time <u>0828</u>
Relinquished By <u>David Becken</u>	Company <u>TTA</u>	Date <u>3-3-16</u>	Time <u>0915</u>	Received By <u>Shawn Scott</u>	Company <u>TTA-CARL</u>	Date <u>3/3/16</u>	Time <u>0915</u>

Lab Courier: TTA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments: meet IL TACO Requirements & Please HOLD SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_



# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-5

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

Near US 34/LaGrange Rd intersection from STA 497+40 to 500+00, 100+00 to 101+00, 102+40 to 103+40 (ISGS Site 2633-13)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

Uncontaminated Site Certification

**III. Basis for Certification and Attachments**

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

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

Soil from borings B02, B03, B04, B05, and B08 were sampled adjacent to ISGS Site No 2633-13. See Exhibits 2, 3, 2E, 2F, 3B, and Table 18 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

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

TestAmerica Lab Report No J108249-6 and J108325-2. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:







Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-13-B02 (0-5)	2633-13-B02 (5-10)	2633-13-B03 (0-5)	2633-13-B03 (5-10)	2633-13-B04 (0-5)	2633-13-B04 (5-10)	2633-13-B05 (0-5)	2633-13-B05 (5-11)	2633-13-B08 (0-5)	2633-13-B08 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-10)	(0-5)	(5-11)	(0-5)	(5-10)
		mg/kg pH 6.25-9.0	Date Collected	03/02/2016	03/02/2016	03/02/2016	03/02/2016	03/02/2016	03/02/2016	03/02/2016	03/02/2016	03/03/2016	03/03/2016	03/03/2016	03/03/2016
<b>Inorganic Analytical Parameters (TCLP)</b>															
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.35	0.32	0.36	0.33	0.41	0.32	0.33	0.39	0.33	0.31
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0046	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		490	550	540	540	560	560	330	270	700	690
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.032	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		0.011	0.015	0.017	0.018	0.019	0.018	<0.025	<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		31	31	22	23	21	27	100	140	30	40
Manganese,TCLP	mg/L	---	---	---		0.64	1.5	0.73	2.1	2.3	3.2	1.3	2.9	0.56	1
Nickel,TCLP	mg/L	---	---	---		<0.025	0.011	<0.025	0.012	0.014	0.013	<0.025	0.045	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.6	2.7	1.9	2.6	1.7	2.8	1.2	3.3	1.4	2.6
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----	----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.088	0.23	0.23	0.3	0.16	0.3	0.74	0.23	0.43	0.86

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108249-6  
Client Project/Site: IDOT - LaGrange - WO 015

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

Attn: Mr. Matthew Weiss



Authorized for release by:  
3/15/2016 2:17:58 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Job ID: 500-108249-6**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108249-6

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

#### GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) for batch 500-325583 was outside the acceptance limits for Vinyl Acetate.

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with 500-325583: Vinyl Acetate. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

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

#### GC/MS Semi VOA

Method(s) 8270D: The following sample contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2633-13-B03 (5-10) (500-108249-22). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-13-B01 (0-5) (500-108249-16), 2633-13-B01 (0-5) Dup (500-108249-17), 2633-13-B01 (5-10) (500-108249-18), 2633-13-B02 (5-10) (500-108249-20), 2633-13-B03 (0-5) (500-108249-21), 2633-13-B03 (5-10) (500-108249-22), 2633-13-B04 (0-5) (500-108249-23) and 2633-13-B04 (5-10) (500-108249-24) were non-detects for Cadmium, therefore the data has been reported..

Method(s) 6020A: The laboratory control sample (LCS) for prep batch 325785 recovered outside control limits for the following analytes: Antimony at 121%rec.. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The affected samples were: 500-108249-20 through 29

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5)**

**Lab Sample ID: 500-108249-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0034	J	0.0042	0.00088	mg/Kg	1	☼	8260B	Total/NA
Arsenic	7.2		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	27000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.61		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.48	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	9.05		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-13-B01 (0-5) Dup**

**Lab Sample ID: 500-108249-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0035	J	0.0047	0.00097	mg/Kg	1	☼	8260B	Total/NA
Arsenic	7.4		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		55	7.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

## Client Sample ID: 2633-13-B01 (0-5) Dup (Continued)

## Lab Sample ID: 500-108249-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.042		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.70		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B01 (5-10)

## Lab Sample ID: 500-108249-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.7		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.50	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1900		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.30	J B F1	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.25		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B02 (0-5)

## Lab Sample ID: 500-108249-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

## Client Sample ID: 2633-13-B02 (0-5) (Continued)

## Lab Sample ID: 500-108249-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.35	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.088	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.71		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B02 (5-10)

## Lab Sample ID: 500-108249-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5	F1	0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J F1	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200	F1	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	860		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

## Client Sample ID: 2633-13-B02 (5-10) (Continued)

## Lab Sample ID: 500-108249-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.79	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B03 (0-5)

## Lab Sample ID: 500-108249-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.60		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	890		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	22		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.73		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.70		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B03 (5-10)

## Lab Sample ID: 500-108249-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

## Client Sample ID: 2633-13-B03 (5-10) (Continued)

## Lab Sample ID: 500-108249-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	55000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	270		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.48	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	760		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	23		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.30	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.059		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.31		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B04 (0-5)

## Lab Sample ID: 500-108249-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	560		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	21		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

## Client Sample ID: 2633-13-B04 (0-5) (Continued)

## Lab Sample ID: 500-108249-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
pH	8.88		0.200	0.200	SU	1			9045D	Total/NA

## Client Sample ID: 2633-13-B04 (5-10)

## Lab Sample ID: 500-108249-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	7.1		0.58	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	37		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.61		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Chromium	18	B	0.58	0.099	mg/Kg	1		☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	23		0.58	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	18000	B	12	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	23000		5.8	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	60000	B	120	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	290		0.58	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	33		0.58	0.16	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.83		0.58	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA
Zinc	76		1.2	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	2000		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	1000		58	7.6	mg/Kg	1		☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	560		5.0	0.50	mg/L	1			6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	27		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.30	J F1	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.025		0.019	0.0099	mg/Kg	1		☼	7471B	Total/NA
pH	8.32		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-16	2633-13-B01 (0-5)	Solid	03/02/16 13:25	03/03/16 09:15
500-108249-17	2633-13-B01 (0-5) Dup	Solid	03/02/16 13:30	03/03/16 09:15
500-108249-18	2633-13-B01 (5-10)	Solid	03/02/16 13:35	03/03/16 09:15
500-108249-19	2633-13-B02 (0-5)	Solid	03/02/16 13:55	03/03/16 09:15
500-108249-20	2633-13-B02 (5-10)	Solid	03/02/16 14:00	03/03/16 09:15
500-108249-21	2633-13-B03 (0-5)	Solid	03/02/16 14:30	03/03/16 09:15
500-108249-22	2633-13-B03 (5-10)	Solid	03/02/16 14:35	03/03/16 09:15
500-108249-23	2633-13-B04 (0-5)	Solid	03/02/16 15:00	03/03/16 09:15
500-108249-24	2633-13-B04 (5-10)	Solid	03/02/16 15:05	03/03/16 09:15



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5)**

**Lab Sample ID: 500-108249-16**

**Date Collected: 03/02/16 13:25**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
<b>Tetrachloroethene</b>	<b>0.0034</b>	<b>J</b>	0.0042	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	03/03/16 12:55	03/04/16 18:14	1
Dibromofluoromethane	95		75 - 120	03/03/16 12:55	03/04/16 18:14	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	03/03/16 12:55	03/04/16 18:14	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/04/16 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5)**

**Lab Sample ID: 500-108249-16**

**Date Collected: 03/02/16 13:25**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5)**

**Lab Sample ID: 500-108249-16**

**Date Collected: 03/02/16 13:25**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	03/05/16 17:18	03/08/16 00:58	1
2-Fluorophenol	81		25 - 110	03/05/16 17:18	03/08/16 00:58	1
Nitrobenzene-d5	70		25 - 115	03/05/16 17:18	03/08/16 00:58	1
Phenol-d5	78		31 - 110	03/05/16 17:18	03/08/16 00:58	1
Terphenyl-d14	87		36 - 134	03/05/16 17:18	03/08/16 00:58	1
2,4,6-Tribromophenol	57		35 - 137	03/05/16 17:18	03/08/16 00:58	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Arsenic</b>	<b>7.2</b>		0.55	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Barium</b>	<b>69</b>		0.55	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Beryllium</b>	<b>0.77</b>		0.22	0.048	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Chromium</b>	<b>20</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Cobalt</b>	<b>14</b>		0.28	0.062	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Copper</b>	<b>26</b>		0.55	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Iron</b>	<b>20000</b>		11	4.2	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Lead</b>	<b>16</b>		0.28	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Magnesium</b>	<b>17000</b>		5.5	2.2	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Calcium</b>	<b>27000</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Manganese</b>	<b>380</b>		0.55	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Nickel</b>	<b>36</b>		0.55	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Selenium</b>	<b>0.61</b>		0.55	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Thallium</b>	<b>0.48</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Vanadium</b>	<b>22</b>		0.28	0.080	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Zinc</b>	<b>54</b>		1.1	0.35	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Potassium</b>	<b>2000</b>		28	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1
<b>Sodium</b>	<b>1900</b>		55	7.3	mg/Kg	☼	03/04/16 15:32	03/05/16 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
<b>Barium</b>	<b>0.59</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 05:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 05:31	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 05:31	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5)**

**Lab Sample ID: 500-108249-16**

**Date Collected: 03/02/16 13:25**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>410</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 05:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 05:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 05:31	1
<b>Magnesium</b>	<b>59</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:31	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
<b>Potassium</b>	<b>3.4</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 05:31	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:31	1
<b>Zinc</b>	<b>0.22</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 05:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.76</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 04:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:19	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.035</b>		0.019	0.0098	mg/Kg	☼	03/04/16 12:35	03/07/16 10:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	03/08/16 12:30	03/08/16 17:34	1
<b>pH</b>	<b>9.05</b>		0.200	0.200	SU			03/05/16 10:36	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5) Dup**

**Lab Sample ID: 500-108249-17**

**Date Collected: 03/02/16 13:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
<b>Tetrachloroethene</b>	<b>0.0035</b>	<b>J</b>	0.0047	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/03/16 12:55	03/04/16 18:40	1
Dibromofluoromethane	102		75 - 120	03/03/16 12:55	03/04/16 18:40	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/03/16 12:55	03/04/16 18:40	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/04/16 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5) Dup**

**Lab Sample ID: 500-108249-17**

**Date Collected: 03/02/16 13:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5) Dup**

**Lab Sample ID: 500-108249-17**

Date Collected: 03/02/16 13:30

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	03/05/16 17:18	03/08/16 01:24	1
2-Fluorophenol	95		25 - 110	03/05/16 17:18	03/08/16 01:24	1
Nitrobenzene-d5	84		25 - 115	03/05/16 17:18	03/08/16 01:24	1
Phenol-d5	88		31 - 110	03/05/16 17:18	03/08/16 01:24	1
Terphenyl-d14	93		36 - 134	03/05/16 17:18	03/08/16 01:24	1
2,4,6-Tribromophenol	80		35 - 137	03/05/16 17:18	03/08/16 01:24	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Arsenic</b>	<b>7.4</b>		0.55	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Barium</b>	<b>46</b>		0.55	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Beryllium</b>	<b>0.71</b>		0.22	0.048	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Chromium</b>	<b>17 B</b>		0.55	0.095	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Cobalt</b>	<b>17</b>		0.28	0.062	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Copper</b>	<b>24</b>		0.55	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Iron</b>	<b>19000</b>		11	4.2	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Lead</b>	<b>15</b>		0.28	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Magnesium</b>	<b>22000</b>		5.5	2.2	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Calcium</b>	<b>69000 B</b>		110	35	mg/Kg	☼	03/04/16 15:32	03/05/16 22:47	10
<b>Manganese</b>	<b>380</b>		0.55	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Nickel</b>	<b>35</b>		0.55	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Vanadium</b>	<b>19</b>		0.28	0.080	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Zinc</b>	<b>52</b>		1.1	0.35	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Potassium</b>	<b>1900</b>		28	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1
<b>Sodium</b>	<b>1600</b>		55	7.3	mg/Kg	☼	03/04/16 15:32	03/05/16 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
<b>Barium</b>	<b>0.39 J</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 05:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 05:38	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 05:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (0-5) Dup**

**Lab Sample ID: 500-108249-17**

**Date Collected: 03/02/16 13:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 05:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 05:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 05:38	1
<b>Magnesium</b>	<b>19</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:38	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
<b>Potassium</b>	<b>2.0</b>	<b>J</b>	2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 05:38	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:38	1
<b>Zinc</b>	<b>0.16</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 04:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:20	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.042</b>		0.017	0.0089	mg/Kg	☼	03/04/16 12:35	03/07/16 10:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.16	mg/Kg	☼	03/08/16 12:30	03/08/16 17:34	1
<b>pH</b>	<b>8.70</b>		0.200	0.200	SU			03/05/16 10:39	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (5-10)**

**Lab Sample ID: 500-108249-18**

**Date Collected: 03/02/16 13:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122	03/03/16 12:55	03/04/16 19:05	1
Dibromofluoromethane	103		75 - 120	03/03/16 12:55	03/04/16 19:05	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/03/16 12:55	03/04/16 19:05	1
Toluene-d8 (Surr)	106		75 - 122	03/03/16 12:55	03/04/16 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (5-10)**

**Lab Sample ID: 500-108249-18**

**Date Collected: 03/02/16 13:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (5-10)**

**Lab Sample ID: 500-108249-18**

**Date Collected: 03/02/16 13:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/05/16 17:18	03/08/16 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		25 - 119	03/05/16 17:18	03/08/16 01:50	1
2-Fluorophenol	83		25 - 110	03/05/16 17:18	03/08/16 01:50	1
Nitrobenzene-d5	72		25 - 115	03/05/16 17:18	03/08/16 01:50	1
Phenol-d5	78		31 - 110	03/05/16 17:18	03/08/16 01:50	1
Terphenyl-d14	85		36 - 134	03/05/16 17:18	03/08/16 01:50	1
2,4,6-Tribromophenol	44		35 - 137	03/05/16 17:18	03/08/16 01:50	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Arsenic</b>	<b>7.7</b>		0.59	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Barium</b>	<b>46</b>		0.59	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Beryllium</b>	<b>0.74</b>		0.24	0.051	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.59	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Cobalt</b>	<b>15</b>		0.30	0.067	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Copper</b>	<b>25</b>		0.59	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Iron</b>	<b>20000</b>		12	4.6	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Lead</b>	<b>15</b>		0.30	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Magnesium</b>	<b>20000</b>		5.9	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Calcium</b>	<b>33000</b>	<b>B</b>	12	3.8	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Manganese</b>	<b>420</b>		0.59	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Nickel</b>	<b>35</b>		0.59	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Selenium</b>	<b>0.66</b>		0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Thallium</b>	<b>0.50</b>	<b>J</b>	0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Vanadium</b>	<b>21</b>		0.30	0.087	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Zinc</b>	<b>56</b>		1.2	0.38	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Potassium</b>	<b>2200</b>		30	4.9	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1
<b>Sodium</b>	<b>1900</b>		59	7.8	mg/Kg	☼	03/04/16 15:32	03/05/16 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		03/07/16 08:47	03/08/16 05:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 05:44	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 05:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B01 (5-10)**

**Lab Sample ID: 500-108249-18**

**Date Collected: 03/02/16 13:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>350</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 05:44	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 05:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 05:44	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:44	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
<b>Potassium</b>	<b>3.3</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 05:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 05:44	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 05:44	1
<b>Zinc</b>	<b>0.30</b>	<b>J B F1</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 05:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:21	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 15:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.020	0.010	mg/Kg	☼	03/04/16 12:35	03/07/16 10:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	03/08/16 12:30	03/08/16 17:35	1
<b>pH</b>	<b>9.25</b>		0.200	0.200	SU			03/05/16 10:41	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (0-5)**

**Lab Sample ID: 500-108249-19**

**Date Collected: 03/02/16 13:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/03/16 12:55	03/04/16 19:30	1
Dibromofluoromethane	104		75 - 120	03/03/16 12:55	03/04/16 19:30	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	03/03/16 12:55	03/04/16 19:30	1
Toluene-d8 (Surr)	104		75 - 122	03/03/16 12:55	03/04/16 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (0-5)**

**Lab Sample ID: 500-108249-19**

**Date Collected: 03/02/16 13:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (0-5)**

**Lab Sample ID: 500-108249-19**

**Date Collected: 03/02/16 13:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		25 - 119	03/05/16 17:18	03/08/16 02:15	1
2-Fluorophenol	93		25 - 110	03/05/16 17:18	03/08/16 02:15	1
Nitrobenzene-d5	83		25 - 115	03/05/16 17:18	03/08/16 02:15	1
Phenol-d5	76		31 - 110	03/05/16 17:18	03/08/16 02:15	1
Terphenyl-d14	88		36 - 134	03/05/16 17:18	03/08/16 02:15	1
2,4,6-Tribromophenol	63		35 - 137	03/05/16 17:18	03/08/16 02:15	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Arsenic</b>	<b>7.1</b>		0.59	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Barium</b>	<b>45</b>		0.59	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.051	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Chromium</b>	<b>18 B</b>		0.59	0.10	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Cobalt</b>	<b>13</b>		0.29	0.066	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Copper</b>	<b>23</b>		0.59	0.13	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Lead</b>	<b>14</b>		0.29	0.15	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Magnesium</b>	<b>20000</b>		5.9	2.4	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Calcium</b>	<b>53000 B</b>		120	38	mg/Kg	☼	03/04/16 15:32	03/05/16 23:04	10
<b>Manganese</b>	<b>310</b>		0.59	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Nickel</b>	<b>34</b>		0.59	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Thallium</b>	<b>0.35 J</b>		0.59	0.29	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Vanadium</b>	<b>20</b>		0.29	0.086	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Zinc</b>	<b>56</b>		1.2	0.37	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Potassium</b>	<b>2000</b>		29	4.8	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1
<b>Sodium</b>	<b>1100</b>		59	7.7	mg/Kg	☼	03/04/16 15:32	03/05/16 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
<b>Barium</b>	<b>0.35 J</b>		0.50	0.050	mg/L		03/07/16 08:47	03/08/16 06:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/16 08:47	03/08/16 06:27	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/07/16 08:47	03/08/16 06:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (0-5)**

**Lab Sample ID: 500-108249-19**

**Date Collected: 03/02/16 13:55**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>490</b>		5.0	0.50	mg/L		03/07/16 08:47	03/08/16 06:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
Iron	<0.40		0.40	0.20	mg/L		03/07/16 08:47	03/08/16 06:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/07/16 08:47	03/08/16 06:27	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		03/07/16 08:47	03/08/16 06:27	1
<b>Manganese</b>	<b>0.64</b>		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
<b>Potassium</b>	<b>1.6</b>	<b>J</b>	2.5	0.50	mg/L		03/07/16 08:47	03/08/16 06:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/07/16 08:47	03/08/16 06:27	1
Silver	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
Vanadium	<0.025		0.025	0.010	mg/L		03/07/16 08:47	03/08/16 06:27	1
<b>Zinc</b>	<b>0.088</b>	<b>J B</b>	0.50	0.020	mg/L		03/07/16 08:47	03/08/16 06:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.61</b>		0.025	0.010	mg/L		03/07/16 08:45	03/09/16 05:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/07/16 08:47	03/09/16 22:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/16 08:47	03/09/16 22:29	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/09/16 14:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.033</b>		0.019	0.0098	mg/Kg	☼	03/04/16 12:35	03/07/16 10:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/08/16 12:30	03/08/16 17:36	1
<b>pH</b>	<b>8.71</b>		0.200	0.200	SU			03/05/16 10:44	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (5-10)**

**Lab Sample ID: 500-108249-20**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Vinyl acetate	<0.0048 *		0.0048	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/03/16 12:55	03/04/16 21:48	1
Dibromofluoromethane	103		75 - 120	03/03/16 12:55	03/04/16 21:48	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/03/16 12:55	03/04/16 21:48	1
Toluene-d8 (Surr)	104		75 - 122	03/03/16 12:55	03/04/16 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (5-10)**

**Lab Sample ID: 500-108249-20**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (5-10)**

**Lab Sample ID: 500-108249-20**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/05/16 17:18	03/08/16 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119	03/05/16 17:18	03/08/16 02:41	1
2-Fluorophenol	68		25 - 110	03/05/16 17:18	03/08/16 02:41	1
Nitrobenzene-d5	59		25 - 115	03/05/16 17:18	03/08/16 02:41	1
Phenol-d5	60		31 - 110	03/05/16 17:18	03/08/16 02:41	1
Terphenyl-d14	88		36 - 134	03/05/16 17:18	03/08/16 02:41	1
2,4,6-Tribromophenol	62		35 - 137	03/05/16 17:18	03/08/16 02:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.24	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Arsenic</b>	<b>7.5</b>	<b>F1</b>	0.58	0.27	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Barium</b>	<b>41</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.050	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Cobalt</b>	<b>13</b>		0.29	0.065	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Copper</b>	<b>23</b>		0.58	0.12	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Iron</b>	<b>19000</b>		12	4.4	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Lead</b>	<b>14</b>		0.29	0.14	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Magnesium</b>	<b>21000</b>		5.8	2.3	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Calcium</b>	<b>54000</b>	<b>B</b>	120	37	mg/Kg	☼	03/04/16 15:32	03/05/16 23:08	10
<b>Manganese</b>	<b>320</b>		0.58	0.11	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Nickel</b>	<b>35</b>		0.58	0.16	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Selenium</b>	<b>0.30</b>	<b>J F1</b>	0.58	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.58	0.28	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Vanadium</b>	<b>20</b>		0.29	0.084	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Zinc</b>	<b>53</b>		1.2	0.36	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Potassium</b>	<b>2200</b>	<b>F1</b>	29	4.7	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1
<b>Sodium</b>	<b>860</b>		58	7.6	mg/Kg	☼	03/04/16 15:32	03/05/16 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:18	03/08/16 06:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:18	03/08/16 06:50	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:18	03/08/16 06:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B02 (5-10)**

**Lab Sample ID: 500-108249-20**

**Date Collected: 03/02/16 14:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/06/16 11:18	03/08/16 06:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 11:18	03/08/16 06:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:18	03/08/16 06:50	1
<b>Magnesium</b>	<b>31</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 06:50	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 06:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:18	03/08/16 06:50	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
Vanadium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:50	1
<b>Zinc</b>	<b>0.23</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 11:18	03/08/16 06:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.79</b>	<b>F1</b>	0.025	0.010	mg/L		03/06/16 11:32	03/09/16 05:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/06/16 11:18	03/09/16 22:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/16 11:18	03/09/16 22:32	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/10/16 13:13	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.018	0.0095	mg/Kg	☼	03/04/16 12:35	03/07/16 10:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/08/16 12:30	03/08/16 17:36	1
<b>pH</b>	<b>8.14</b>		0.200	0.200	SU			03/05/16 10:46	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (0-5)**

**Lab Sample ID: 500-108249-21**

**Date Collected: 03/02/16 14:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Vinyl acetate	<0.0043	*	0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/03/16 12:55	03/04/16 22:13	1
Dibromofluoromethane	100		75 - 120	03/03/16 12:55	03/04/16 22:13	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/03/16 12:55	03/04/16 22:13	1
Toluene-d8 (Surr)	113		75 - 122	03/03/16 12:55	03/04/16 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (0-5)**

**Lab Sample ID: 500-108249-21**

**Date Collected: 03/02/16 14:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Benzo[g,h,i]perylene	<0.037	F1	0.037	0.012	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Hexachlorocyclopentadiene	<0.75	F1	0.75	0.21	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2-Methylnaphthalene	<0.037	F1	0.037	0.0069	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (0-5)**

**Lab Sample ID: 500-108249-21**

**Date Collected: 03/02/16 14:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	03/06/16 12:00	03/08/16 15:43	1
2-Fluorophenol	86		25 - 110	03/06/16 12:00	03/08/16 15:43	1
Nitrobenzene-d5	102		25 - 115	03/06/16 12:00	03/08/16 15:43	1
Phenol-d5	85		31 - 110	03/06/16 12:00	03/08/16 15:43	1
Terphenyl-d14	82		36 - 134	03/06/16 12:00	03/08/16 15:43	1
2,4,6-Tribromophenol	71		35 - 137	03/06/16 12:00	03/08/16 15:43	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Arsenic</b>	<b>8.0</b>		0.55	0.26	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Barium</b>	<b>46</b>		0.55	0.10	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Beryllium</b>	<b>0.62</b>		0.22	0.048	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Chromium</b>	<b>18 B</b>		0.55	0.095	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Cobalt</b>	<b>15</b>		0.28	0.062	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Copper</b>	<b>27</b>		0.55	0.12	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Iron</b>	<b>19000 B</b>		11	4.3	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Lead</b>	<b>15</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Magnesium</b>	<b>21000</b>		5.5	2.2	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Calcium</b>	<b>57000 B</b>		110	36	mg/Kg	☼	03/05/16 12:30	03/07/16 15:24	10
<b>Manganese</b>	<b>330</b>		0.55	0.11	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Nickel</b>	<b>37</b>		0.55	0.15	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Thallium</b>	<b>0.60</b>		0.55	0.27	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Vanadium</b>	<b>20</b>		0.28	0.081	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Zinc</b>	<b>56</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Potassium</b>	<b>1800</b>		28	4.5	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1
<b>Sodium</b>	<b>890</b>		55	7.3	mg/Kg	☼	03/05/16 12:30	03/07/16 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
<b>Barium</b>	<b>0.36 J</b>		0.50	0.050	mg/L		03/06/16 11:18	03/08/16 06:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:18	03/08/16 06:57	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:18	03/08/16 06:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (0-5)**

**Lab Sample ID: 500-108249-21**

**Date Collected: 03/02/16 14:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>540</b>		5.0	0.50	mg/L		03/06/16 11:18	03/08/16 06:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 11:18	03/08/16 06:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:18	03/08/16 06:57	1
<b>Magnesium</b>	<b>22</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 06:57	1
<b>Manganese</b>	<b>0.73</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
<b>Potassium</b>	<b>1.9</b>	<b>J</b>	2.5	0.50	mg/L		03/06/16 11:18	03/08/16 06:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:18	03/08/16 06:57	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
Vanadium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 06:57	1
<b>Zinc</b>	<b>0.23</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 11:18	03/08/16 06:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.33</b>		0.025	0.010	mg/L		03/06/16 11:32	03/09/16 06:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/06/16 11:18	03/09/16 22:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/16 11:18	03/09/16 22:34	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/10/16 14:29	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.018	0.0096	mg/Kg	☼	03/04/16 17:00	03/07/16 10:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	03/08/16 12:30	03/08/16 17:37	1
<b>pH</b>	<b>8.70</b>		0.200	0.200	SU			03/05/16 10:48	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (5-10)**

**Lab Sample ID: 500-108249-22**

**Date Collected: 03/02/16 14:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Vinyl acetate	<0.0042	*	0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/03/16 12:55	03/04/16 22:38	1
Dibromofluoromethane	104		75 - 120	03/03/16 12:55	03/04/16 22:38	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/03/16 12:55	03/04/16 22:38	1
Toluene-d8 (Surr)	113		75 - 122	03/03/16 12:55	03/04/16 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (5-10)**

**Lab Sample ID: 500-108249-22**

**Date Collected: 03/02/16 14:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (5-10)**

**Lab Sample ID: 500-108249-22**

Date Collected: 03/02/16 14:35

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/06/16 12:00	03/08/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	03/06/16 12:00	03/08/16 16:12	1
2-Fluorophenol	90		25 - 110	03/06/16 12:00	03/08/16 16:12	1
Nitrobenzene-d5	78		25 - 115	03/06/16 12:00	03/08/16 16:12	1
Phenol-d5	85		31 - 110	03/06/16 12:00	03/08/16 16:12	1
Terphenyl-d14	76		36 - 134	03/06/16 12:00	03/08/16 16:12	1
2,4,6-Tribromophenol	31	X	35 - 137	03/06/16 12:00	03/08/16 16:12	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Arsenic</b>	<b>9.5</b>		0.56	0.26	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Barium</b>	<b>40</b>		0.56	0.10	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Beryllium</b>	<b>0.65</b>		0.22	0.048	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Cobalt</b>	<b>13</b>		0.28	0.063	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Copper</b>	<b>23</b>		0.56	0.12	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Magnesium</b>	<b>21000</b>		5.6	2.3	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Calcium</b>	<b>55000</b>	<b>B</b>	110	36	mg/Kg	☼	03/05/16 12:30	03/07/16 15:28	10
<b>Manganese</b>	<b>270</b>		0.56	0.11	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Nickel</b>	<b>36</b>		0.56	0.15	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
Selenium	<0.56		0.56	0.27	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Thallium</b>	<b>0.48</b>	<b>J</b>	0.56	0.27	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Vanadium</b>	<b>20</b>		0.28	0.081	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Zinc</b>	<b>56</b>		1.1	0.35	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Potassium</b>	<b>2000</b>		28	4.5	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1
<b>Sodium</b>	<b>760</b>		56	7.3	mg/Kg	☼	03/05/16 12:30	03/07/16 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:18	03/08/16 07:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:18	03/08/16 07:04	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:18	03/08/16 07:04	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B03 (5-10)**

**Lab Sample ID: 500-108249-22**

**Date Collected: 03/02/16 14:35**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>540</b>		5.0	0.50	mg/L		03/06/16 11:18	03/08/16 07:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 11:18	03/08/16 07:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:18	03/08/16 07:04	1
<b>Magnesium</b>	<b>23</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 07:04	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 07:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:18	03/08/16 07:04	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
Vanadium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:04	1
<b>Zinc</b>	<b>0.30</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 11:18	03/08/16 07:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		03/06/16 11:32	03/09/16 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/06/16 11:18	03/09/16 22:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/16 11:18	03/09/16 22:35	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/10/16 13:20	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.059</b>		0.017	0.0091	mg/Kg	☼	03/04/16 17:00	03/07/16 11:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/08/16 12:30	03/08/16 17:37	1
<b>pH</b>	<b>8.31</b>		0.200	0.200	SU			03/05/16 10:51	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (0-5)**

**Lab Sample ID: 500-108249-23**

**Date Collected: 03/02/16 15:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Vinyl acetate	<0.0042 *		0.0042	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/03/16 12:55	03/04/16 23:03	1
Dibromofluoromethane	104		75 - 120	03/03/16 12:55	03/04/16 23:03	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/03/16 12:55	03/04/16 23:03	1
Toluene-d8 (Surr)	118		75 - 122	03/03/16 12:55	03/04/16 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (0-5)**

**Lab Sample ID: 500-108249-23**

**Date Collected: 03/02/16 15:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (0-5)**

**Lab Sample ID: 500-108249-23**

**Date Collected: 03/02/16 15:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	03/06/16 12:00	03/08/16 16:41	1
2-Fluorophenol	75		25 - 110	03/06/16 12:00	03/08/16 16:41	1
Nitrobenzene-d5	65		25 - 115	03/06/16 12:00	03/08/16 16:41	1
Phenol-d5	79		31 - 110	03/06/16 12:00	03/08/16 16:41	1
Terphenyl-d14	89		36 - 134	03/06/16 12:00	03/08/16 16:41	1
2,4,6-Tribromophenol	62		35 - 137	03/06/16 12:00	03/08/16 16:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Arsenic</b>	<b>6.7</b>		0.57	0.26	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Barium</b>	<b>52</b>		0.57	0.10	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.049	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Chromium</b>	<b>16 B</b>		0.57	0.098	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Cobalt</b>	<b>13</b>		0.28	0.064	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Copper</b>	<b>21</b>		0.57	0.12	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Iron</b>	<b>17000 B</b>		11	4.4	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Lead</b>	<b>13</b>		0.28	0.14	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Magnesium</b>	<b>20000</b>		5.7	2.3	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Calcium</b>	<b>53000 B</b>		110	37	mg/Kg	☼	03/05/16 12:30	03/07/16 15:32	10
<b>Manganese</b>	<b>320</b>		0.57	0.11	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Nickel</b>	<b>34</b>		0.57	0.15	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Thallium</b>	<b>0.39 J</b>		0.57	0.28	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Vanadium</b>	<b>18</b>		0.28	0.083	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Zinc</b>	<b>47</b>		1.1	0.36	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Potassium</b>	<b>1800</b>		28	4.6	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1
<b>Sodium</b>	<b>1200</b>		57	7.5	mg/Kg	☼	03/05/16 12:30	03/07/16 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
<b>Barium</b>	<b>0.41 J</b>		0.50	0.050	mg/L		03/06/16 11:18	03/08/16 07:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:18	03/08/16 07:10	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:18	03/08/16 07:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (0-5)**

**Lab Sample ID: 500-108249-23**

**Date Collected: 03/02/16 15:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>560</b>		5.0	0.50	mg/L		03/06/16 11:18	03/08/16 07:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 11:18	03/08/16 07:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:18	03/08/16 07:10	1
<b>Magnesium</b>	<b>21</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 07:10	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
<b>Potassium</b>	<b>1.7</b>	<b>J</b>	2.5	0.50	mg/L		03/06/16 11:18	03/08/16 07:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:18	03/08/16 07:10	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
Vanadium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:10	1
<b>Zinc</b>	<b>0.16</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 11:18	03/08/16 07:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/06/16 11:32	03/09/16 06:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/06/16 11:18	03/09/16 22:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/16 11:18	03/09/16 22:36	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/10/16 13:22	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.019	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 11:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/08/16 12:30	03/08/16 17:37	1
<b>pH</b>	<b>8.88</b>		0.200	0.200	SU			03/05/16 10:53	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (5-10)**

**Lab Sample ID: 500-108249-24**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Bromoform	<0.0043		0.0043	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Chloroform	<0.0043		0.0043	0.00085	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Vinyl acetate	<0.0043	*	0.0043	0.0012	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/03/16 12:55	03/04/16 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/03/16 12:55	03/04/16 23:28	1
Dibromofluoromethane	93		75 - 120	03/03/16 12:55	03/04/16 23:28	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	03/03/16 12:55	03/04/16 23:28	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/04/16 23:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (5-10)**

**Lab Sample ID: 500-108249-24**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (5-10)**

**Lab Sample ID: 500-108249-24**

Date Collected: 03/02/16 15:05

Matrix: Solid

Date Received: 03/03/16 09:15

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	03/06/16 12:00	03/08/16 17:10	1
2-Fluorophenol	82		25 - 110	03/06/16 12:00	03/08/16 17:10	1
Nitrobenzene-d5	72		25 - 115	03/06/16 12:00	03/08/16 17:10	1
Phenol-d5	77		31 - 110	03/06/16 12:00	03/08/16 17:10	1
Terphenyl-d14	71		36 - 134	03/06/16 12:00	03/08/16 17:10	1
2,4,6-Tribromophenol	45		35 - 137	03/06/16 12:00	03/08/16 17:10	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Arsenic</b>	<b>7.1</b>		0.58	0.27	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Barium</b>	<b>37</b>		0.58	0.11	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Beryllium</b>	<b>0.61</b>		0.23	0.050	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Chromium</b>	<b>18 B</b>		0.58	0.099	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Copper</b>	<b>23</b>		0.58	0.12	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Iron</b>	<b>18000 B</b>		12	4.4	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Lead</b>	<b>13</b>		0.29	0.14	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Magnesium</b>	<b>23000</b>		5.8	2.3	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Calcium</b>	<b>60000 B</b>		120	37	mg/Kg	☼	03/05/16 12:30	03/07/16 15:36	10
<b>Manganese</b>	<b>290</b>		0.58	0.11	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Nickel</b>	<b>33</b>		0.58	0.16	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Thallium</b>	<b>0.83</b>		0.58	0.28	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Vanadium</b>	<b>19</b>		0.29	0.084	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Zinc</b>	<b>76</b>		1.2	0.36	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Potassium</b>	<b>2000</b>		29	4.7	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1
<b>Sodium</b>	<b>1000</b>		58	7.6	mg/Kg	☼	03/05/16 12:30	03/07/16 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
<b>Barium</b>	<b>0.32 J</b>		0.50	0.050	mg/L		03/06/16 11:18	03/08/16 07:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:18	03/08/16 07:33	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:18	03/08/16 07:33	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

**Client Sample ID: 2633-13-B04 (5-10)**

**Lab Sample ID: 500-108249-24**

**Date Collected: 03/02/16 15:05**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>560</b>		5.0	0.50	mg/L		03/06/16 11:18	03/08/16 07:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 11:18	03/08/16 07:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:18	03/08/16 07:33	1
<b>Magnesium</b>	<b>27</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 07:33	1
<b>Manganese</b>	<b>3.2</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
<b>Potassium</b>	<b>2.8</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 07:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:18	03/08/16 07:33	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
Vanadium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 07:33	1
<b>Zinc</b>	<b>0.30</b>	<b>J F1</b>	0.50	0.020	mg/L		03/06/16 11:18	03/08/16 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/06/16 11:32	03/09/16 06:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/06/16 11:18	03/09/16 22:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/16 11:18	03/09/16 22:37	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/10/16 13:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.025</b>		0.019	0.0099	mg/Kg	☼	03/04/16 17:00	03/07/16 11:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	03/08/16 12:30	03/08/16 17:38	1
<b>pH</b>	<b>8.32</b>		0.200	0.200	SU			03/05/16 10:56	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

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

## Glossary

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



# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-6

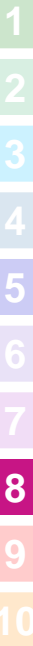
## Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-757-9489  
 E-Mail: Matt.Weisse@terracon.com

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

## Chain of Custody Record

Lab Job #: 500-108249  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		VOCs		SVOCs		Total 23 Inorganics		TCLP 23 Inorganics		PH		SPLP 23 Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #																		
Project Location/State		Lab PM																		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix														Comments
16		2633-13-B01 (O-S)	3/2/16	1:25	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	HOLD SPLP
17		2633-13-B01 (O-S) Dup	3/2/16	1:30	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Analysis
18		2633-13-B01 (S-10)	3/2/16	1:35	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19		2633-13-B02 (O-S)	3/2/16	1:55	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
20		2633-13-B02 (S-10)	3/2/16	2:00	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
21		2633-13-B03 (O-S)	3/2/16	2:30	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
22		2633-13-B03 (S-10)	3/2/16	2:35	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
23		2633-13-B04 (O-S)	3/2/16	3:00	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24		2633-13-B04 (S-10)	3/2/16	3:05	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

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

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/3/16</u>	Time <u>820</u>	Received By <u>David Beeder</u>	Company <u>TA</u>	Date <u>3/3/16</u>	Time <u>0828</u>
Relinquished By <u>David Beeder</u>	Company <u>TA</u>	Date <u>3/3/16</u>	Time <u>0915</u>	Received By <u>Shirley</u>	Company <u>TA-CP</u>	Date <u>3/3/16</u>	Time <u>0915</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: met IL TACO requirements & please HOLD SPLP Analysis, thank you.

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-6

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108325-2

Client Project/Site: IDOT - LaGrange - WO 015

Revision: 1

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/29/2016 2:00:00 PM

Eric Lang, Manager of Project Management

(708)534-5200

[eric.lang@testamericainc.com](mailto:eric.lang@testamericainc.com)

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

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

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

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



### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Job ID: 500-108325-2**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108325-2

#### Comments

Revised Report - the VOC results have been reprinted to present the results as evaluated to the MDL.

No additional comments.

#### Receipt

The samples were received on 3/4/2016 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 2.7° C and 3.0° C.

#### GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 500-325852: Vinyl Acetate. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

Method(s) 8260B: The following samples were diluted due to the abundance of target and non-target analytes: 2633-13-B06 (0-5) (500-108325-11), 2633-13-B06 (0-5) Dup (500-108325-12) and 2633-13-B07 (10-15) (500-108325-16). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following analytes recovered outside control limits for the LCS/LCSD associated with 325772: 1,1,2,2-Tetrachloroethane and Vinyl Acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

#### GC/MS Semi VOA

Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: 2633-13-B09 (5-10) (500-108325-20). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: 500-108325-1 MSD had 2-Fluorophenol and 2,4,6-Tribromophenol biased high. The MS was in control for the surrogate recoveries. No further action was taken.(500-108325-F-1-G MSD)

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 500-326004 had 2 analytes (2,4-Dichlorophenol and 2-Methylnaphthalene) outside control limits, therefore, corrective action was not performed. These results have been reported and qualified. (LCS 500-326004/2-A)

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

#### Metals

Method(s) 6020A: The initial calibration verification low level (ICVL) result for batch 500-326398 was above the upper control limit for Antimony. The bracketing CCVL were within control limits. Sample results were non-detects, and have been reported as qualified data.

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

#### General Chemistry

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

#### Organic Prep

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

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (0-5)**

**Lab Sample ID: 500-108325-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.018		0.015	0.0029	mg/Kg	1	☼	8260B	Total/NA
Arsenic	7.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000	B	12	3.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.44	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.74		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.89		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-13-B05 (5-11)**

**Lab Sample ID: 500-108325-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.038		0.021	0.0040	mg/Kg	1	☼	8260B	Total/NA
Chrysene	0.013	J	0.044	0.012	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.044	0.0082	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0064	J	0.044	0.0062	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.044	0.0088	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.5		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.55		0.13	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	22	B	0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.31	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		13	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.31	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000	B	6.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	13	4.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	200		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	42		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

## Client Sample ID: 2633-13-B05 (5-11) (Continued)

## Lab Sample ID: 500-108325-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.39	J	0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.31	0.092	mg/Kg	1	☼	6010B	Total/NA
Zinc	140		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	3200		63	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0046	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.3		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.079		0.022	0.012	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B06 (0-5)

## Lab Sample ID: 500-108325-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.024		0.013	0.0095	mg/Kg	50	☼	8260B	Total/NA
Xylenes, Total	0.030		0.026	0.011	mg/Kg	50	☼	8260B	Total/NA
Arsenic	7.8		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.036	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	85000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	950		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	560		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.95	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.47	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

## Client Sample ID: 2633-13-B06 (0-5) (Continued)

## Lab Sample ID: 500-108325-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.052		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.59		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B06 (0-5) Dup

## Lab Sample ID: 500-108325-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.033		0.013	0.0099	mg/Kg	50	☼	8260B	Total/NA
Xylenes, Total	0.028		0.027	0.012	mg/Kg	50	☼	8260B	Total/NA
2-Methylnaphthalene	0.042	*	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.024	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Arsenic	11		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.51	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	920		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	93		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.056	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.048		0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.40		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B06 (5-10)

## Lab Sample ID: 500-108325-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.17		0.013	0.0078	mg/Kg	50	☼	8260B	Total/NA
Ethylbenzene	1.8		0.013	0.0098	mg/Kg	50	☼	8260B	Total/NA
Xylenes, Total	0.093		0.027	0.012	mg/Kg	50	☼	8260B	Total/NA
Fluoranthene	0.0073	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.059	*	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

## Client Sample ID: 2633-13-B06 (5-10) (Continued)

## Lab Sample ID: 500-108325-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.68		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.66		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	990		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.34	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	670		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.14	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B07 (0-5)

## Lab Sample ID: 500-108325-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.018	0.0034	mg/Kg	1	☼	8260B	Total/NA
Fluoranthene	0.0083	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	13		0.62	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.25	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	40		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000	B	6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	2900	B	12	4.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	48		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.56	J	0.62	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.31	0.090	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	970		62	8.1	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

## Client Sample ID: 2633-13-B07 (0-5) (Continued)

## Lab Sample ID: 500-108325-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	140		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0094		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.82		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	3.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.093		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.79		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B07 (5-10)

## Lab Sample ID: 500-108325-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.010	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	77		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.053	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	27		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	870		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	50		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	480		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	680		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.099	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.055		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	7.75		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B07 (10-15)

## Lab Sample ID: 500-108325-16

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (10-15) (Continued)**

**Lab Sample ID: 500-108325-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.5		0.013	0.0077	mg/Kg	50	☼	8260B	Total/NA
Benzene - DL	21		0.13	0.077	mg/Kg	500	☼	8260B	Total/NA
Ethylbenzene - DL	13		0.13	0.096	mg/Kg	500	☼	8260B	Total/NA
Xylenes, Total - DL	29		0.26	0.12	mg/Kg	500	☼	8260B	Total/NA
Chrysene	0.045		0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.047	*	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.022	J	0.036	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.059		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.7		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	7.9		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.8	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	260		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Thallium	2.4		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	84		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.076		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.7		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Thallium	0.0041		0.0020	0.0020	mg/L	1		6020A	TCLP
Mercury	0.046		0.016	0.0083	mg/Kg	1	☼	7471B	Total/NA
pH	7.53		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-13-B08 (0-5)**

**Lab Sample ID: 500-108325-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (0-5) (Continued)**

**Lab Sample ID: 500-108325-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	23		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.33	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	700		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	30		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.43	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.92		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-13-B08 (5-10)**

**Lab Sample ID: 500-108325-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	44		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.65		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	390		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	690		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	40		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.86		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.044		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

## Client Sample ID: 2633-13-B08 (5-10) (Continued)

## Lab Sample ID: 500-108325-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.024		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.60		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B09 (0-5)

## Lab Sample ID: 500-108325-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.015	J	0.041	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0092	J	0.041	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.056		0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.43		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.54		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.4		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.036	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.52		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.1		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	0.67		0.20	0.040	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1.0		0.20	0.044	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.46		0.20	0.066	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.43		0.20	0.061	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.092	J	0.20	0.040	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.54		0.20	0.053	mg/Kg	5	☼	8270D	Total/NA
Arsenic	8.8		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7600	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.77		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	540		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.45		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	8.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.89		0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.25		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.65		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.069		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

## Client Sample ID: 2633-13-B09 (5-10)

## Lab Sample ID: 500-108325-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	510		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.74		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.84		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	910		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	87		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J F1	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.98	F1	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.75		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-13-B09 (10-15)

## Lab Sample ID: 500-108325-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.071		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.064	J B	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	330	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	550		55	7.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (10-15) (Continued)**

**Lab Sample ID: 500-108325-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.64		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	570		5.0	0.50	mg/L	1			6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.056		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	6.1		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.044		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.028		0.019	0.010	mg/Kg	1		☆	7471B	Total/NA
pH	7.80		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago





# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108325-9	2633-13-B05 (0-5)	Solid	03/03/16 11:40	03/04/16 08:45
500-108325-10	2633-13-B05 (5-11)	Solid	03/03/16 11:45	03/04/16 08:45
500-108325-11	2633-13-B06 (0-5)	Solid	03/03/16 12:20	03/04/16 08:45
500-108325-12	2633-13-B06 (0-5) Dup	Solid	03/03/16 12:25	03/04/16 08:45
500-108325-13	2633-13-B06 (5-10)	Solid	03/03/16 12:30	03/04/16 08:45
500-108325-14	2633-13-B07 (0-5)	Solid	03/03/16 12:50	03/04/16 08:45
500-108325-15	2633-13-B07 (5-10)	Solid	03/03/16 12:55	03/04/16 08:45
500-108325-16	2633-13-B07 (10-15)	Solid	03/03/16 13:00	03/04/16 08:45
500-108325-17	2633-13-B08 (0-5)	Solid	03/03/16 14:00	03/04/16 08:45
500-108325-18	2633-13-B08 (5-10)	Solid	03/03/16 14:05	03/04/16 08:45
500-108325-19	2633-13-B09 (0-5)	Solid	03/03/16 14:20	03/04/16 08:45
500-108325-20	2633-13-B09 (5-10)	Solid	03/03/16 14:25	03/04/16 08:45
500-108325-21	2633-13-B09 (10-15)	Solid	03/03/16 14:30	03/04/16 08:45

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (0-5)**

**Lab Sample ID: 500-108325-9**

**Date Collected: 03/03/16 11:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.018</b>		0.015	0.0029	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Benzene	<0.00084		0.0038	0.00084	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Bromodichloromethane	<0.00064		0.0038	0.00064	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Bromoform	<0.00077		0.0038	0.00077	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Bromomethane	<0.0014		0.0038	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
2-Butanone (MEK)	<0.0014		0.0038	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Carbon disulfide	<0.0014		0.0038	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Carbon tetrachloride	<0.00081		0.0038	0.00081	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Chlorobenzene	<0.00090		0.0038	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Chloroethane	<0.0016		0.0038	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Chloroform	<0.00074		0.0038	0.00074	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Chloromethane	<0.00091		0.0038	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
cis-1,2-Dichloroethene	<0.00077		0.0038	0.00077	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
cis-1,3-Dichloropropene	<0.00087		0.0038	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Dibromochloromethane	<0.00044		0.0038	0.00044	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,1-Dichloroethane	<0.00078		0.0038	0.00078	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,2-Dichloroethane	<0.00056		0.0038	0.00056	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,1-Dichloroethene	<0.0014		0.0038	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,2-Dichloropropane	<0.00099		0.0038	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,3-Dichloropropene, Total	<0.0011		0.0038	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Ethylbenzene	<0.00094		0.0038	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
2-Hexanone	<0.0012		0.0038	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Methylene Chloride	<0.0029		0.0038	0.0029	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
4-Methyl-2-pentanone (MIBK)	<0.00078		0.0038	0.00078	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Methyl tert-butyl ether	<0.00090		0.0038	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Styrene	<0.00089		0.0038	0.00089	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,1,1,2-Tetrachloroethane	<0.00060 *		0.0038	0.00060	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Tetrachloroethene	<0.00079		0.0038	0.00079	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Toluene	<0.0013		0.0038	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
trans-1,2-Dichloroethene	<0.00095		0.0038	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
trans-1,3-Dichloropropene	<0.0011		0.0038	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,1,1-Trichloroethane	<0.00088		0.0038	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
1,1,2-Trichloroethane	<0.00073		0.0038	0.00073	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Trichloroethene	<0.0010		0.0038	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Vinyl acetate	<0.0010 *		0.0038	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Vinyl chloride	<0.00090		0.0038	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1
Xylenes, Total	<0.0014		0.0076	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/04/16 09:15	03/06/16 14:14	1
Dibromofluoromethane	108		75 - 120	03/04/16 09:15	03/06/16 14:14	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	03/04/16 09:15	03/06/16 14:14	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 09:15	03/06/16 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (0-5)**

**Lab Sample ID: 500-108325-9**

**Date Collected: 03/03/16 11:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,4-Dichlorophenol	<0.39 *		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2-Methylnaphthalene	<0.039 *		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (0-5)**

**Lab Sample ID: 500-108325-9**

**Date Collected: 03/03/16 11:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	31		25 - 119	03/08/16 07:41	03/10/16 02:27	1
2-Fluorophenol	80		25 - 110	03/08/16 07:41	03/10/16 02:27	1
Nitrobenzene-d5	36		25 - 115	03/08/16 07:41	03/10/16 02:27	1
Phenol-d5	62		31 - 110	03/08/16 07:41	03/10/16 02:27	1
Terphenyl-d14	84		36 - 134	03/08/16 07:41	03/10/16 02:27	1
2,4,6-Tribromophenol	80		35 - 137	03/08/16 07:41	03/10/16 02:27	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Arsenic</b>	<b>7.8</b>		0.58	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Barium</b>	<b>59</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.050	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Chromium</b>	<b>17 B</b>		0.58	0.099	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Cobalt</b>	<b>14</b>		0.29	0.065	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Copper</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Iron</b>	<b>19000</b>		12	4.4	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Magnesium</b>	<b>21000 B</b>		5.8	2.3	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Calcium</b>	<b>33000 B</b>		12	3.7	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Manganese</b>	<b>440</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Nickel</b>	<b>38</b>		0.58	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Selenium</b>	<b>0.31 J</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Thallium</b>	<b>0.44 J</b>		0.58	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Vanadium</b>	<b>20</b>		0.29	0.084	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Zinc</b>	<b>56</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Potassium</b>	<b>1700</b>		29	4.7	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1
<b>Sodium</b>	<b>2500</b>		58	7.6	mg/Kg	☼	03/08/16 16:09	03/10/16 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
<b>Barium</b>	<b>0.33 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (0-5)**

**Lab Sample ID: 500-108325-9**

**Date Collected: 03/03/16 11:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 82.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:20	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:20	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
<b>Potassium</b>	<b>1.2 J</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:20	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:20	1
<b>Zinc</b>	<b>0.74</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:50	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:50	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:07	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.018	0.0096	mg/Kg	☼	03/04/16 17:00	03/07/16 12:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/09/16 16:30	03/10/16 18:48	1
<b>pH</b>	<b>7.89</b>		0.200	0.200	SU			03/04/16 18:48	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (5-11)**

**Lab Sample ID: 500-108325-10**

**Date Collected: 03/03/16 11:45**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 74.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.038</b>		0.021	0.0040	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Benzene	<0.0011		0.0051	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Bromodichloromethane	<0.00087		0.0051	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Bromoform	<0.0010		0.0051	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Bromomethane	<0.0019		0.0051	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
2-Butanone (MEK)	<0.0018		0.0051	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Carbon disulfide	<0.0019		0.0051	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Carbon tetrachloride	<0.0011		0.0051	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Chlorobenzene	<0.0012		0.0051	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Chloroethane	<0.0022		0.0051	0.0022	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Chloroform	<0.0010		0.0051	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Chloromethane	<0.0012		0.0051	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
cis-1,2-Dichloroethene	<0.0010		0.0051	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
cis-1,3-Dichloropropene	<0.0012		0.0051	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Dibromochloromethane	<0.00059		0.0051	0.00059	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,1-Dichloroethane	<0.0011		0.0051	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,2-Dichloroethane	<0.00076		0.0051	0.00076	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,1-Dichloroethene	<0.0019		0.0051	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,2-Dichloropropane	<0.0013		0.0051	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,3-Dichloropropene, Total	<0.0014		0.0051	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Ethylbenzene	<0.0013		0.0051	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
2-Hexanone	<0.0016		0.0051	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Methylene Chloride	<0.0039		0.0051	0.0039	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
4-Methyl-2-pentanone (MIBK)	<0.0011		0.0051	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Methyl tert-butyl ether	<0.0012		0.0051	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Styrene	<0.0012		0.0051	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,1,2,2-Tetrachloroethane	<0.00082		0.0051	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Tetrachloroethene	<0.0011		0.0051	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Toluene	<0.0018		0.0051	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
trans-1,2-Dichloroethene	<0.0013		0.0051	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
trans-1,3-Dichloropropene	<0.0014		0.0051	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,1,1-Trichloroethane	<0.0012		0.0051	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
1,1,2-Trichloroethane	<0.00099		0.0051	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Trichloroethene	<0.0014		0.0051	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Vinyl acetate	<0.0014		0.0051	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Vinyl chloride	<0.0012		0.0051	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1
Xylenes, Total	<0.0019		0.010	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	03/04/16 09:15	03/06/16 14:40	1
Dibromofluoromethane	106		75 - 120	03/04/16 09:15	03/06/16 14:40	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	03/04/16 09:15	03/06/16 14:40	1
Toluene-d8 (Surr)	103		75 - 122	03/04/16 09:15	03/06/16 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.044		0.044	0.0079	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Acenaphthylene	<0.044		0.044	0.0058	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Anthracene	<0.044		0.044	0.0074	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Benzo[a]anthracene	<0.044		0.044	0.0059	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (5-11)**

**Lab Sample ID: 500-108325-10**

**Date Collected: 03/03/16 11:45**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 74.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.044		0.044	0.0085	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Benzo[b]fluoranthene	<0.044		0.044	0.0095	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Benzo[g,h,i]perylene	<0.044		0.044	0.014	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Benzo[k]fluoranthene	<0.044		0.044	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.081	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Butyl benzyl phthalate	<0.22		0.22	0.084	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
4-Chloroaniline	<0.89		0.89	0.21	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
4-Chloro-3-methylphenol	<0.44		0.44	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2-Chloronaphthalene	<0.22		0.22	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2-Chlorophenol	<0.22		0.22	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.044	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Dibenz(a,h)anthracene	<0.044		0.044	0.0085	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Dibenzofuran	<0.22		0.22	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
1,2-Dichlorobenzene	<0.22		0.22	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
1,3-Dichlorobenzene	<0.22		0.22	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
1,4-Dichlorobenzene	<0.22		0.22	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,4-Dichlorophenol	<0.44	*	0.44	0.10	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Diethyl phthalate	<0.22		0.22	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,4-Dimethylphenol	<0.44		0.44	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Dimethyl phthalate	<0.22		0.22	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Di-n-butyl phthalate	<0.22		0.22	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
4,6-Dinitro-2-methylphenol	<0.89		0.89	0.35	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,4-Dinitrophenol	<0.89		0.89	0.78	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,4-Dinitrotoluene	<0.22		0.22	0.070	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,6-Dinitrotoluene	<0.22		0.22	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Di-n-octyl phthalate	<0.22		0.22	0.072	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
<b>Fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.044	0.0082	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Fluorene	<0.044		0.044	0.0062	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Hexachlorobenzene	<0.089		0.089	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Hexachlorobutadiene	<0.22		0.22	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Hexachlorocyclopentadiene	<0.89		0.89	0.25	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Hexachloroethane	<0.22		0.22	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Indeno[1,2,3-cd]pyrene	<0.044		0.044	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Isophorone	<0.22		0.22	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2-Methylnaphthalene	<0.044	*	0.044	0.0081	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2-Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
3 & 4 Methylphenol	<0.22		0.22	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Naphthalene	<0.044		0.044	0.0068	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2-Nitroaniline	<0.22		0.22	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
3-Nitroaniline	<0.44		0.44	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
4-Nitroaniline	<0.44		0.44	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Nitrobenzene	<0.044		0.044	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2-Nitrophenol	<0.44		0.44	0.10	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (5-11)**

**Lab Sample ID: 500-108325-10**

Date Collected: 03/03/16 11:45

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.89		0.89	0.42	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
N-Nitrosodi-n-propylamine	<0.089		0.089	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
N-Nitrosodiphenylamine	<0.22		0.22	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Pentachlorophenol	<0.89		0.89	0.71	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
<b>Phenanthrene</b>	<b>0.0064</b>	<b>J</b>	0.044	0.0062	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Phenol	<0.22		0.22	0.098	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.044	0.0088	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,4,5-Trichlorophenol	<0.44		0.44	0.10	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
2,4,6-Trichlorophenol	<0.44		0.44	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		25 - 119				03/08/16 07:41	03/10/16 02:53	1
2-Fluorophenol	77		25 - 110				03/08/16 07:41	03/10/16 02:53	1
Nitrobenzene-d5	41		25 - 115				03/08/16 07:41	03/10/16 02:53	1
Phenol-d5	45		31 - 110				03/08/16 07:41	03/10/16 02:53	1
Terphenyl-d14	87		36 - 134				03/08/16 07:41	03/10/16 02:53	1
2,4,6-Tribromophenol	56		35 - 137				03/08/16 07:41	03/10/16 02:53	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Arsenic</b>	<b>8.5</b>		0.63	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Barium</b>	<b>64</b>		0.63	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Beryllium</b>	<b>0.75</b>		0.25	0.054	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Cadmium</b>	<b>0.55</b>		0.13	0.036	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Chromium</b>	<b>22</b>	<b>B</b>	0.63	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Cobalt</b>	<b>15</b>		0.31	0.071	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Copper</b>	<b>31</b>		0.63	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Iron</b>	<b>24000</b>		13	4.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Lead</b>	<b>24</b>		0.31	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Magnesium</b>	<b>10000</b>	<b>B</b>	6.3	2.6	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	13	4.1	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Manganese</b>	<b>200</b>		0.63	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Nickel</b>	<b>42</b>		0.63	0.17	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
Selenium	<0.63		0.63	0.31	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
Silver	<0.31		0.31	0.074	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Thallium</b>	<b>0.39</b>	<b>J</b>	0.63	0.31	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Vanadium</b>	<b>24</b>		0.31	0.092	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Zinc</b>	<b>140</b>		1.3	0.40	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Potassium</b>	<b>2200</b>		31	5.1	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1
<b>Sodium</b>	<b>3200</b>		63	8.3	mg/Kg	☼	03/08/16 16:09	03/10/16 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Cadmium</b>	<b>0.0046</b>	<b>J</b>	0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:27	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B05 (5-11)**

**Lab Sample ID: 500-108325-10**

**Date Collected: 03/03/16 11:45**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 74.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>270</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Manganese</b>	<b>2.9</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Potassium</b>	<b>3.3</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:27	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:27	1
<b>Zinc</b>	<b>0.23 J</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 06:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:54	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:54	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:09	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.079</b>		0.022	0.012	mg/Kg	☼	03/04/16 17:00	03/07/16 12:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/09/16 16:30	03/10/16 18:48	1
<b>pH</b>	<b>8.13</b>		0.200	0.200	SU			03/04/16 19:02	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5)**

**Lab Sample ID: 500-108325-11**

**Date Collected: 03/03/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.090		0.26	0.090	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Benzene	<0.0076		0.013	0.0076	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Bromodichloromethane	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Bromoform	<0.025		0.052	0.025	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Bromomethane	<0.041		0.10	0.041	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
2-Butanone (MEK)	<0.11		0.26	0.11	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Carbon disulfide	<0.042		0.10	0.042	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Carbon tetrachloride	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Chlorobenzene	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Chloroethane	<0.026		0.052	0.026	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Chloroform	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Chloromethane	<0.017		0.052	0.017	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
cis-1,2-Dichloroethene	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
cis-1,3-Dichloropropene	<0.022		0.052	0.022	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Dibromochloromethane	<0.025		0.052	0.025	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,1-Dichloroethane	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,2-Dichloroethane	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,1-Dichloroethene	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,2-Dichloropropane	<0.022		0.052	0.022	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,3-Dichloropropane, Total	<0.022		0.052	0.022	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
<b>Ethylbenzene</b>	<b>0.024</b>		0.013	0.0095	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
2-Hexanone	<0.081		0.26	0.081	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Methylene Chloride	<0.084		0.26	0.084	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
4-Methyl-2-pentanone (MIBK)	<0.11		0.26	0.11	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Methyl tert-butyl ether	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Styrene	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,1,2,2-Tetrachloroethane	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Tetrachloroethene	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Toluene	<0.0076		0.013	0.0076	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
trans-1,2-Dichloroethene	<0.018		0.052	0.018	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
trans-1,3-Dichloropropene	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,1,1-Trichloroethane	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
1,1,2-Trichloroethane	<0.018		0.052	0.018	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Trichloroethene	<0.0085		0.026	0.0085	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Vinyl acetate	<0.047		0.10	0.047	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
Vinyl chloride	<0.014		0.026	0.014	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50
<b>Xylenes, Total</b>	<b>0.030</b>		0.026	0.011	mg/Kg	☼	03/03/16 12:20	03/11/16 12:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 120	03/03/16 12:20	03/11/16 12:07	50
Dibromofluoromethane	82		75 - 120	03/03/16 12:20	03/11/16 12:07	50
1,2-Dichloroethane-d4 (Surr)	88		75 - 125	03/03/16 12:20	03/11/16 12:07	50
Toluene-d8 (Surr)	93		75 - 120	03/03/16 12:20	03/11/16 12:07	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5)**

**Lab Sample ID: 500-108325-11**

**Date Collected: 03/03/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,4-Dichlorophenol	<0.38 *		0.38	0.092	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2-Methylnaphthalene	<0.038 *		0.038	0.0071	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5)**

**Lab Sample ID: 500-108325-11**

**Date Collected: 03/03/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	37		25 - 119	03/08/16 07:41	03/10/16 03:19	1
2-Fluorophenol	85		25 - 110	03/08/16 07:41	03/10/16 03:19	1
Nitrobenzene-d5	74		25 - 115	03/08/16 07:41	03/10/16 03:19	1
Phenol-d5	72		31 - 110	03/08/16 07:41	03/10/16 03:19	1
Terphenyl-d14	88		36 - 134	03/08/16 07:41	03/10/16 03:19	1
2,4,6-Tribromophenol	102		35 - 137	03/08/16 07:41	03/10/16 03:19	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Arsenic</b>	<b>7.8</b>		0.57	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Barium</b>	<b>37</b>		0.57	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Beryllium</b>	<b>0.57</b>		0.23	0.049	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Cadmium</b>	<b>0.036</b>	<b>J</b>	0.11	0.033	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Cobalt</b>	<b>14</b>		0.28	0.064	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Copper</b>	<b>29</b>		0.57	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Iron</b>	<b>17000</b>		11	4.4	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Lead</b>	<b>17</b>		0.28	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Magnesium</b>	<b>24000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Calcium</b>	<b>85000</b>	<b>B</b>	110	37	mg/Kg	☼	03/08/16 16:09	03/10/16 03:54	10
<b>Manganese</b>	<b>330</b>		0.57	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Nickel</b>	<b>33</b>		0.57	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Thallium</b>	<b>0.41</b>	<b>J</b>	0.57	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Vanadium</b>	<b>16</b>		0.28	0.083	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Zinc</b>	<b>51</b>		1.1	0.36	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Potassium</b>	<b>1500</b>		28	4.6	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1
<b>Sodium</b>	<b>950</b>		57	7.5	mg/Kg	☼	03/08/16 16:09	03/10/16 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5)**

**Lab Sample ID: 500-108325-11**

**Date Collected: 03/03/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>560</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:34	1
<b>Magnesium</b>	<b>42</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:34	1
<b>Manganese</b>	<b>6.1</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
<b>Potassium</b>	<b>0.95</b>	<b>J</b>	2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:34	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:34	1
<b>Zinc</b>	<b>0.47</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 06:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 15:59	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 15:59	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:15	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.052</b>		0.018	0.0094	mg/Kg	☼	03/04/16 17:00	03/07/16 12:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	03/10/16 16:40	03/11/16 17:24	1
<b>pH</b>	<b>8.59</b>		0.200	0.200	SU			03/15/16 13:18	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5) Dup**

**Lab Sample ID: 500-108325-12**

**Date Collected: 03/03/16 12:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.093		0.27	0.093	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Benzene	<0.0079		0.013	0.0079	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Bromodichloromethane	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Bromoform	<0.026		0.054	0.026	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Bromomethane	<0.043		0.11	0.043	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
2-Butanone (MEK)	<0.11		0.27	0.11	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Carbon disulfide	<0.043		0.11	0.043	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Carbon tetrachloride	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Chlorobenzene	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Chloroethane	<0.027		0.054	0.027	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Chloroform	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Chloromethane	<0.017		0.054	0.017	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
cis-1,2-Dichloroethene	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
cis-1,3-Dichloropropene	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Dibromochloromethane	<0.026		0.054	0.026	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,1-Dichloroethane	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,2-Dichloroethane	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,1-Dichloroethene	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,2-Dichloropropane	<0.023		0.054	0.023	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,3-Dichloropropene, Total	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
<b>Ethylbenzene</b>	<b>0.033</b>		0.013	0.0099	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
2-Hexanone	<0.084		0.27	0.084	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Methylene Chloride	<0.088		0.27	0.088	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
4-Methyl-2-pentanone (MIBK)	<0.12		0.27	0.12	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Methyl tert-butyl ether	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Styrene	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,1,2,2-Tetrachloroethane	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Tetrachloroethene	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Toluene	<0.0079		0.013	0.0079	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
trans-1,2-Dichloroethene	<0.019		0.054	0.019	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
trans-1,3-Dichloropropene	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,1,1-Trichloroethane	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
1,1,2-Trichloroethane	<0.019		0.054	0.019	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Trichloroethene	<0.0089		0.027	0.0089	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Vinyl acetate	<0.049		0.11	0.049	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
Vinyl chloride	<0.014		0.027	0.014	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50
<b>Xylenes, Total</b>	<b>0.028</b>		0.027	0.012	mg/Kg	☼	03/03/16 12:25	03/11/16 12:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 120	03/03/16 12:25	03/11/16 12:35	50
Dibromofluoromethane	83		75 - 120	03/03/16 12:25	03/11/16 12:35	50
1,2-Dichloroethane-d4 (Surr)	93		75 - 125	03/03/16 12:25	03/11/16 12:35	50
Toluene-d8 (Surr)	93		75 - 120	03/03/16 12:25	03/11/16 12:35	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5) Dup**

**Lab Sample ID: 500-108325-12**

**Date Collected: 03/03/16 12:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,4-Dichlorophenol	<0.38 *		0.38	0.092	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
<b>2-Methylnaphthalene</b>	<b>0.042 *</b>		0.038	0.0071	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
<b>Naphthalene</b>	<b>0.024 J</b>		0.038	0.0059	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5) Dup**

**Lab Sample ID: 500-108325-12**

Date Collected: 03/03/16 12:25

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	34		25 - 119	03/08/16 07:41	03/10/16 03:45	1
2-Fluorophenol	75		25 - 110	03/08/16 07:41	03/10/16 03:45	1
Nitrobenzene-d5	65		25 - 115	03/08/16 07:41	03/10/16 03:45	1
Phenol-d5	44		31 - 110	03/08/16 07:41	03/10/16 03:45	1
Terphenyl-d14	81		36 - 134	03/08/16 07:41	03/10/16 03:45	1
2,4,6-Tribromophenol	81		35 - 137	03/08/16 07:41	03/10/16 03:45	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Arsenic</b>	<b>11</b>		0.57	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Barium</b>	<b>35</b>		0.57	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Beryllium</b>	<b>0.56</b>		0.23	0.050	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Chromium</b>	<b>13 B</b>		0.57	0.098	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Cobalt</b>	<b>15</b>		0.29	0.065	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Copper</b>	<b>30</b>		0.57	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Lead</b>	<b>17</b>		0.29	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Magnesium</b>	<b>28000 B</b>		5.7	2.3	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Calcium</b>	<b>71000 B</b>		110	37	mg/Kg	☼	03/08/16 16:09	03/10/16 03:59	10
<b>Manganese</b>	<b>410</b>		0.57	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Nickel</b>	<b>32</b>		0.57	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Selenium</b>	<b>0.31 J</b>		0.57	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Thallium</b>	<b>0.51 J</b>		0.57	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Vanadium</b>	<b>16</b>		0.29	0.083	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Zinc</b>	<b>59</b>		1.1	0.36	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Potassium</b>	<b>1600</b>		29	4.7	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1
<b>Sodium</b>	<b>920</b>		57	7.5	mg/Kg	☼	03/08/16 16:09	03/10/16 01:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
<b>Barium</b>	<b>0.45 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:41	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (0-5) Dup**

**Lab Sample ID: 500-108325-12**

**Date Collected: 03/03/16 12:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>360</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:41	1
<b>Magnesium</b>	<b>93</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:41	1
<b>Manganese</b>	<b>7.7</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
<b>Potassium</b>	<b>1.6</b>	<b>J</b>	2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:41	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:41	1
<b>Zinc</b>	<b>0.056</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 06:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:03	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:03	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:17	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.048</b>		0.017	0.0092	mg/Kg	☼	03/04/16 17:00	03/07/16 12:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	03/10/16 16:40	03/11/16 17:25	1
<b>pH</b>	<b>8.40</b>		0.200	0.200	SU			03/15/16 13:23	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (5-10)**

**Lab Sample ID: 500-108325-13**

**Date Collected: 03/03/16 12:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.093		0.27	0.093	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
<b>Benzene</b>	<b>0.17</b>		0.013	0.0078	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Bromodichloromethane	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Bromoform	<0.026		0.054	0.026	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Bromomethane	<0.043		0.11	0.043	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
2-Butanone (MEK)	<0.11		0.27	0.11	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Carbon disulfide	<0.043		0.11	0.043	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Carbon tetrachloride	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Chlorobenzene	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Chloroethane	<0.027		0.054	0.027	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Chloroform	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Chloromethane	<0.017		0.054	0.017	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
cis-1,2-Dichloroethene	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
cis-1,3-Dichloropropene	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Dibromochloromethane	<0.026		0.054	0.026	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,1-Dichloroethane	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,2-Dichloroethane	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,1-Dichloroethene	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,2-Dichloropropane	<0.023		0.054	0.023	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,3-Dichloropropene, Total	<0.022		0.054	0.022	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
<b>Ethylbenzene</b>	<b>1.8</b>		0.013	0.0098	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
2-Hexanone	<0.083		0.27	0.083	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Methylene Chloride	<0.087		0.27	0.087	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
4-Methyl-2-pentanone (MIBK)	<0.12		0.27	0.12	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Methyl tert-butyl ether	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Styrene	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,1,2,2-Tetrachloroethane	<0.021		0.054	0.021	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Tetrachloroethene	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Toluene	<0.0079		0.013	0.0079	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
trans-1,2-Dichloroethene	<0.019		0.054	0.019	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
trans-1,3-Dichloropropene	<0.019		0.054	0.019	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,1,1-Trichloroethane	<0.020		0.054	0.020	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
1,1,2-Trichloroethane	<0.019		0.054	0.019	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Trichloroethene	<0.0088		0.027	0.0088	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Vinyl acetate	<0.048		0.11	0.048	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
Vinyl chloride	<0.014		0.027	0.014	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50
<b>Xylenes, Total</b>	<b>0.093</b>		0.027	0.012	mg/Kg	☼	03/03/16 12:30	03/11/16 13:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		75 - 120	03/03/16 12:30	03/11/16 13:03	50
Dibromofluoromethane	83		75 - 120	03/03/16 12:30	03/11/16 13:03	50
1,2-Dichloroethane-d4 (Surr)	93		75 - 125	03/03/16 12:30	03/11/16 13:03	50
Toluene-d8 (Surr)	95		75 - 120	03/03/16 12:30	03/11/16 13:03	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (5-10)**

**Lab Sample ID: 500-108325-13**

**Date Collected: 03/03/16 12:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,4-Dichlorophenol	<0.39 *		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
<b>Fluoranthene</b>	<b>0.0073 J</b>		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
<b>2-Methylnaphthalene</b>	<b>0.059 *</b>		0.039	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (5-10)**

**Lab Sample ID: 500-108325-13**

**Date Collected: 03/03/16 12:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	36		25 - 119	03/08/16 07:41	03/10/16 04:10	1
2-Fluorophenol	80		25 - 110	03/08/16 07:41	03/10/16 04:10	1
Nitrobenzene-d5	70		25 - 115	03/08/16 07:41	03/10/16 04:10	1
Phenol-d5	43		31 - 110	03/08/16 07:41	03/10/16 04:10	1
Terphenyl-d14	86		36 - 134	03/08/16 07:41	03/10/16 04:10	1
2,4,6-Tribromophenol	36		35 - 137	03/08/16 07:41	03/10/16 04:10	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Arsenic</b>	<b>8.6</b>		0.58	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Barium</b>	<b>42</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.050	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Chromium</b>	<b>18 B</b>		0.58	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Cobalt</b>	<b>14</b>		0.29	0.066	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Copper</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Iron</b>	<b>20000</b>		12	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Lead</b>	<b>15</b>		0.29	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Magnesium</b>	<b>22000 B</b>		5.8	2.4	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Calcium</b>	<b>66000 B</b>		120	38	mg/Kg	☼	03/08/16 16:09	03/10/16 04:03	10
<b>Manganese</b>	<b>330</b>		0.58	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Nickel</b>	<b>36</b>		0.58	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Selenium</b>	<b>0.45 J</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Thallium</b>	<b>0.66</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Vanadium</b>	<b>21</b>		0.29	0.085	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Zinc</b>	<b>56</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Potassium</b>	<b>2400</b>		29	4.8	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1
<b>Sodium</b>	<b>990</b>		58	7.7	mg/Kg	☼	03/08/16 16:09	03/10/16 01:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
<b>Barium</b>	<b>0.34 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B06 (5-10)**

**Lab Sample ID: 500-108325-13**

**Date Collected: 03/03/16 12:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>670</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 19:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 19:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 19:47	1
<b>Magnesium</b>	<b>32</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:47	1
<b>Manganese</b>	<b>5.3</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
<b>Potassium</b>	<b>2.4</b>	<b>J</b>	2.5	0.50	mg/L		03/10/16 14:47	03/11/16 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 19:47	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 19:47	1
<b>Zinc</b>	<b>0.14</b>	<b>J</b>	0.50	0.020	mg/L		03/10/16 14:47	03/11/16 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 06:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:07	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:19	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.020	0.011	mg/Kg	☼	03/04/16 17:00	03/07/16 12:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	03/10/16 16:40	03/11/16 17:26	1
<b>pH</b>	<b>8.14</b>		0.200	0.200	SU			03/04/16 19:56	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (0-5)**

**Lab Sample ID: 500-108325-14**

**Date Collected: 03/03/16 12:50**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.025</b>		0.018	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Benzene	<0.00099		0.0044	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Bromodichloromethane	<0.00075		0.0044	0.00075	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Bromoform	<0.00091		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
2-Butanone (MEK)	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Carbon disulfide	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Carbon tetrachloride	<0.00095		0.0044	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Chlorobenzene	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Chloroethane	<0.0019		0.0044	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Chloroform	<0.00087		0.0044	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Chloromethane	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
cis-1,2-Dichloroethene	<0.00091		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
cis-1,3-Dichloropropene	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Dibromochloromethane	<0.00051		0.0044	0.00051	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,1-Dichloroethane	<0.00091		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,2-Dichloroethane	<0.00066		0.0044	0.00066	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,1-Dichloroethene	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,2-Dichloropropane	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,3-Dichloropropane, Total	<0.0013		0.0044	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Ethylbenzene	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Methylene Chloride	<0.0034		0.0044	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
4-Methyl-2-pentanone (MIBK)	<0.00091		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Methyl tert-butyl ether	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Styrene	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,1,2,2-Tetrachloroethane	<0.00070		0.0044	0.00070	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Tetrachloroethene	<0.00092		0.0044	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Toluene	<0.0015		0.0044	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
trans-1,2-Dichloroethene	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
trans-1,3-Dichloropropene	<0.0013		0.0044	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,1,1-Trichloroethane	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
1,1,2-Trichloroethane	<0.00086		0.0044	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Trichloroethene	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Vinyl acetate	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Vinyl chloride	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1
Xylenes, Total	<0.0016		0.0089	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/04/16 09:15	03/06/16 15:05	1
Dibromofluoromethane	105		75 - 120	03/04/16 09:15	03/06/16 15:05	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/04/16 09:15	03/06/16 15:05	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 09:15	03/06/16 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (0-5)**

**Lab Sample ID: 500-108325-14**

**Date Collected: 03/03/16 12:50**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,4-Dichlorophenol	<0.41 *		0.41	0.098	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
<b>Fluoranthene</b>	<b>0.0083 J</b>		0.041	0.0077	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2-Methylnaphthalene	<0.041 *		0.041	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (0-5)**

**Lab Sample ID: 500-108325-14**

**Date Collected: 03/03/16 12:50**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	38		25 - 119	03/08/16 07:41	03/10/16 04:36	1
2-Fluorophenol	86		25 - 110	03/08/16 07:41	03/10/16 04:36	1
Nitrobenzene-d5	72		25 - 115	03/08/16 07:41	03/10/16 04:36	1
Phenol-d5	52		31 - 110	03/08/16 07:41	03/10/16 04:36	1
Terphenyl-d14	89		36 - 134	03/08/16 07:41	03/10/16 04:36	1
2,4,6-Tribromophenol	83		35 - 137	03/08/16 07:41	03/10/16 04:36	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Arsenic</b>	<b>13</b>		0.62	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Barium</b>	<b>38</b>		0.62	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Beryllium</b>	<b>0.67</b>		0.25	0.053	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
Cadmium	<0.12		0.12	0.036	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Chromium</b>	<b>16 B</b>		0.62	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Cobalt</b>	<b>17</b>		0.31	0.070	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Copper</b>	<b>40</b>		0.62	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Iron</b>	<b>23000</b>		12	4.7	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Lead</b>	<b>24</b>		0.31	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Magnesium</b>	<b>4000 B</b>		6.2	2.5	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Calcium</b>	<b>2900 B</b>		12	4.0	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Manganese</b>	<b>320</b>		0.62	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Nickel</b>	<b>48</b>		0.62	0.17	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
Selenium	<0.62		0.62	0.30	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Thallium</b>	<b>0.56 J</b>		0.62	0.30	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Vanadium</b>	<b>19</b>		0.31	0.090	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Zinc</b>	<b>71</b>		1.2	0.39	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Potassium</b>	<b>1400</b>		31	5.0	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1
<b>Sodium</b>	<b>970</b>		62	8.1	mg/Kg	☼	03/08/16 16:09	03/10/16 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Barium</b>	<b>0.33 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 20:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 20:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 20:10	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (0-5)**

**Lab Sample ID: 500-108325-14**

**Date Collected: 03/03/16 12:50**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>140</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 20:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Cobalt</b>	<b>0.025</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Lead</b>	<b>0.0094</b>		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Magnesium</b>	<b>59</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Manganese</b>	<b>7.7</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Potassium</b>	<b>1.9 J</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 20:10	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:10	1
<b>Zinc</b>	<b>0.82</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 20:10	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		03/10/16 16:43	03/12/16 06:48	1
<b>Manganese</b>	<b>3.8</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:12	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:12	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:21	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.093</b>		0.019	0.0099	mg/Kg	☼	03/04/16 17:00	03/07/16 12:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/10/16 16:40	03/11/16 17:27	1
<b>pH</b>	<b>7.79</b>		0.200	0.200	SU			03/04/16 20:09	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (5-10)**

**Lab Sample ID: 500-108325-15**

**Date Collected: 03/03/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0033		0.017	0.0033	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Benzene	<0.00093		0.0042	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Bromodichloromethane	<0.00071		0.0042	0.00071	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Bromoform	<0.00086		0.0042	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Bromomethane	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
2-Butanone (MEK)	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Carbon disulfide	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Carbon tetrachloride	<0.00090		0.0042	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Chlorobenzene	<0.00099		0.0042	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Chloroethane	<0.0018		0.0042	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Chloroform	<0.00082		0.0042	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Chloromethane	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
cis-1,2-Dichloroethene	<0.00086		0.0042	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
cis-1,3-Dichloropropene	<0.00096		0.0042	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Dibromochloromethane	<0.00048		0.0042	0.00048	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,1-Dichloroethane	<0.00087		0.0042	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,2-Dichloroethane	<0.00062		0.0042	0.00062	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,1-Dichloroethene	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,2-Dichloropropane	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,3-Dichloropropene, Total	<0.0012		0.0042	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Ethylbenzene	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Methylene Chloride	<0.0032		0.0042	0.0032	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
4-Methyl-2-pentanone (MIBK)	<0.00087		0.0042	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Methyl tert-butyl ether	<0.00099		0.0042	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Styrene	<0.00098		0.0042	0.00098	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0042	0.00067	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Tetrachloroethene	<0.00087		0.0042	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Toluene	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
trans-1,2-Dichloroethene	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
trans-1,3-Dichloropropene	<0.0012		0.0042	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,1,1-Trichloroethane	<0.00098		0.0042	0.00098	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
1,1,2-Trichloroethane	<0.00081		0.0042	0.00081	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Trichloroethene	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Vinyl acetate	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Vinyl chloride	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1
Xylenes, Total	<0.0016		0.0084	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/04/16 09:15	03/06/16 15:30	1
Dibromofluoromethane	96		75 - 120	03/04/16 09:15	03/06/16 15:30	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	03/04/16 09:15	03/06/16 15:30	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 09:15	03/06/16 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (5-10)**

**Lab Sample ID: 500-108325-15**

**Date Collected: 03/03/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,4-Dichlorophenol	<0.38 *		0.38	0.091	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2-Methylnaphthalene	<0.038 *		0.038	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (5-10)**

**Lab Sample ID: 500-108325-15**

**Date Collected: 03/03/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
<b>Phenanthrene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	47		25 - 119				03/08/16 07:41	03/10/16 05:02	1
2-Fluorophenol	83		25 - 110				03/08/16 07:41	03/10/16 05:02	1
Nitrobenzene-d5	69		25 - 115				03/08/16 07:41	03/10/16 05:02	1
Phenol-d5	40		31 - 110				03/08/16 07:41	03/10/16 05:02	1
Terphenyl-d14	85		36 - 134				03/08/16 07:41	03/10/16 05:02	1
2,4,6-Tribromophenol	111		35 - 137				03/08/16 07:41	03/10/16 05:02	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Arsenic</b>	<b>6.9</b>		0.58	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Barium</b>	<b>77</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.051	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Cadmium</b>	<b>0.053</b>	<b>J</b>	0.12	0.034	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Cobalt</b>	<b>27</b>		0.29	0.066	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Copper</b>	<b>23</b>		0.58	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Lead</b>	<b>13</b>		0.29	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Calcium</b>	<b>66000</b>	<b>B</b>	120	38	mg/Kg	☼	03/08/16 16:09	03/10/16 04:11	10
<b>Manganese</b>	<b>870</b>		0.58	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Nickel</b>	<b>50</b>		0.58	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Thallium</b>	<b>0.80</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Vanadium</b>	<b>20</b>		0.29	0.085	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Zinc</b>	<b>60</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Potassium</b>	<b>2400</b>		29	4.8	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1
<b>Sodium</b>	<b>480</b>		58	7.7	mg/Kg	☼	03/08/16 16:09	03/10/16 02:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 20:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 20:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 20:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (5-10)**

**Lab Sample ID: 500-108325-15**

**Date Collected: 03/03/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>680</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 20:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 20:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 20:17	1
<b>Magnesium</b>	<b>35</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:17	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
<b>Potassium</b>	<b>2.5</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 20:17	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:17	1
<b>Zinc</b>	<b>0.099 J</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:16	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:16	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:23	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.055</b>		0.017	0.0090	mg/Kg	☼	03/04/16 17:00	03/07/16 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	03/10/16 16:40	03/11/16 17:27	1
<b>pH</b>	<b>7.75</b>		0.200	0.200	SU			03/04/16 20:23	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (10-15)**

**Lab Sample ID: 500-108325-16**

**Date Collected: 03/03/16 13:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 91.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.091		0.26	0.091	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Bromodichloromethane	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Bromoform	<0.025		0.052	0.025	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Bromomethane	<0.042		0.10	0.042	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
2-Butanone (MEK)	<0.11		0.26	0.11	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Carbon disulfide	<0.042		0.10	0.042	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Carbon tetrachloride	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Chlorobenzene	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Chloroethane	<0.026		0.052	0.026	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Chloroform	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Chloromethane	<0.017		0.052	0.017	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
cis-1,2-Dichloroethene	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
cis-1,3-Dichloropropene	<0.022		0.052	0.022	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Dibromochloromethane	<0.026		0.052	0.026	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,1-Dichloroethane	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,2-Dichloroethane	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,1-Dichloroethene	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,2-Dichloropropane	<0.022		0.052	0.022	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,3-Dichloropropene, Total	<0.022		0.052	0.022	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
2-Hexanone	<0.082		0.26	0.082	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
4-Methyl-2-pentanone (MIBK)	<0.11		0.26	0.11	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Methyl tert-butyl ether	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Styrene	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,1,2,2-Tetrachloroethane	<0.021		0.052	0.021	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Tetrachloroethene	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
<b>Toluene</b>	<b>4.5</b>		0.013	0.0077	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
trans-1,2-Dichloroethene	<0.018		0.052	0.018	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
trans-1,3-Dichloropropene	<0.019		0.052	0.019	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,1,1-Trichloroethane	<0.020		0.052	0.020	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
1,1,2-Trichloroethane	<0.018		0.052	0.018	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Trichloroethene	<0.0086		0.026	0.0086	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Vinyl acetate	<0.047		0.10	0.047	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50
Vinyl chloride	<0.014		0.026	0.014	mg/Kg	☼	03/03/16 13:00	03/11/16 13:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 120	03/03/16 13:00	03/11/16 13:30	50
Dibromofluoromethane	86		75 - 120	03/03/16 13:00	03/11/16 13:30	50
1,2-Dichloroethane-d4 (Surr)	98		75 - 125	03/03/16 13:00	03/11/16 13:30	50
Toluene-d8 (Surr)	106		75 - 120	03/03/16 13:00	03/11/16 13:30	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>21</b>		0.13	0.077	mg/Kg	☼	03/03/16 13:00	03/11/16 13:58	500
<b>Ethylbenzene</b>	<b>13</b>		0.13	0.096	mg/Kg	☼	03/03/16 13:00	03/11/16 13:58	500
Methylene Chloride	<0.85		2.6	0.85	mg/Kg	☼	03/03/16 13:00	03/11/16 13:58	500
<b>Xylenes, Total</b>	<b>29</b>		0.26	0.12	mg/Kg	☼	03/03/16 13:00	03/11/16 13:58	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 120	03/03/16 13:00	03/11/16 13:58	500
Dibromofluoromethane	83		75 - 120	03/03/16 13:00	03/11/16 13:58	500

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (10-15)**

**Lab Sample ID: 500-108325-16**

**Date Collected: 03/03/16 13:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 91.6**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 125	03/03/16 13:00	03/11/16 13:58	500
Toluene-d8 (Surr)	93		75 - 120	03/03/16 13:00	03/11/16 13:58	500

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
<b>Chrysene</b>	<b>0.045</b>		0.036	0.0098	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,4-Dichlorophenol	<0.36 *		0.36	0.086	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (10-15)**

**Lab Sample ID: 500-108325-16**

Date Collected: 03/03/16 13:00

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>2-Methylnaphthalene</b>	<b>0.047</b>	*	0.036	0.0066	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
<b>Naphthalene</b>	<b>0.022</b>	J	0.036	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
<b>Phenanthrene</b>	<b>0.059</b>		0.036	0.0050	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	03/08/16 07:41	03/10/16 14:35	1
2-Fluorophenol	78		25 - 110	03/08/16 07:41	03/10/16 14:35	1
Nitrobenzene-d5	76		25 - 115	03/08/16 07:41	03/10/16 14:35	1
Phenol-d5	79		31 - 110	03/08/16 07:41	03/10/16 14:35	1
Terphenyl-d14	111		36 - 134	03/08/16 07:41	03/10/16 14:35	1
2,4,6-Tribromophenol	92		35 - 137	03/08/16 07:41	03/10/16 14:35	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Arsenic</b>	<b>8.7</b>		0.52	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Barium</b>	<b>7.9</b>		0.52	0.095	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Beryllium</b>	<b>0.47</b>		0.21	0.045	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Cadmium</b>	<b>0.16</b>		0.10	0.030	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Chromium</b>	<b>9.8</b>	B	0.52	0.089	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Cobalt</b>	<b>14</b>		0.26	0.059	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Copper</b>	<b>32</b>		0.52	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Iron</b>	<b>14000</b>		10	4.0	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Lead</b>	<b>20</b>		0.26	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Magnesium</b>	<b>24000</b>	B	5.2	2.1	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Calcium</b>	<b>57000</b>	B	100	33	mg/Kg	☼	03/08/16 16:09	03/10/16 04:15	10
<b>Manganese</b>	<b>260</b>		0.52	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Nickel</b>	<b>32</b>		0.52	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Selenium</b>	<b>0.56</b>		0.52	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Thallium</b>	<b>2.4</b>		0.52	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Vanadium</b>	<b>13</b>		0.26	0.076	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
<b>Zinc</b>	<b>84</b>		1.0	0.33	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B07 (10-15)**

**Lab Sample ID: 500-108325-16**

Date Collected: 03/03/16 13:00

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1400		26	4.2	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1
Sodium	220		52	6.8	mg/Kg	☼	03/08/16 16:09	03/10/16 02:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Barium	0.11	J	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 20:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 20:24	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 20:24	1
Calcium	360		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 20:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Cobalt	0.076		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 20:24	1
Lead	0.010		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 20:24	1
Magnesium	90		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:24	1
Manganese	1.5		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Nickel	0.11		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Potassium	4.6		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 20:24	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:24	1
Zinc	1.7		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 20:24	1

### Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 16:43	03/12/16 07:02	1
Manganese	0.011	J	0.025	0.010	mg/L		03/10/16 16:43	03/12/16 07:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:20	1
Thallium	0.0041		0.0020	0.0020	mg/L		03/10/16 14:47	03/15/16 12:48	1

### Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		03/10/16 16:43	03/15/16 13:01	1

### Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:25	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.016	0.0083	mg/Kg	☼	03/04/16 17:00	03/07/16 12:46	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.16	mg/Kg	☼	03/10/16 16:40	03/11/16 17:27	1
pH	7.53		0.200	0.200	SU			03/04/16 20:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (0-5)**

**Lab Sample ID: 500-108325-17**

**Date Collected: 03/03/16 14:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0033		0.017	0.0033	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Benzene	<0.00094		0.0042	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Bromodichloromethane	<0.00071		0.0042	0.00071	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Bromoform	<0.00086		0.0042	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Bromomethane	<0.0016		0.0042	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
2-Butanone (MEK)	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Carbon disulfide	<0.0016		0.0042	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Carbon tetrachloride	<0.00090		0.0042	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Chlorobenzene	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Chloroethane	<0.0018		0.0042	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Chloroform	<0.00082		0.0042	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Chloromethane	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
cis-1,2-Dichloroethene	<0.00086		0.0042	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
cis-1,3-Dichloropropene	<0.00096		0.0042	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Dibromochloromethane	<0.00049		0.0042	0.00049	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,1-Dichloroethane	<0.00087		0.0042	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,2-Dichloroethane	<0.00063		0.0042	0.00063	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,1-Dichloroethene	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,2-Dichloropropane	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,3-Dichloropropene, Total	<0.0012		0.0042	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Ethylbenzene	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
2-Hexanone	<0.0013		0.0042	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Methylene Chloride	<0.0032		0.0042	0.0032	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
4-Methyl-2-pentanone (MIBK)	<0.00087		0.0042	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Methyl tert-butyl ether	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Styrene	<0.00099		0.0042	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,1,2,2-Tetrachloroethane	<0.00067		0.0042	0.00067	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Tetrachloroethene	<0.00088		0.0042	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Toluene	<0.0015		0.0042	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
trans-1,2-Dichloroethene	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
trans-1,3-Dichloropropene	<0.0012		0.0042	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,1,1-Trichloroethane	<0.00098		0.0042	0.00098	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
1,1,2-Trichloroethane	<0.00082		0.0042	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Trichloroethene	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Vinyl acetate	<0.0011		0.0042	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Vinyl chloride	<0.0010		0.0042	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1
Xylenes, Total	<0.0016		0.0084	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/04/16 09:15	03/06/16 15:55	1
Dibromofluoromethane	112		75 - 120	03/04/16 09:15	03/06/16 15:55	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/04/16 09:15	03/06/16 15:55	1
Toluene-d8 (Surr)	95		75 - 122	03/04/16 09:15	03/06/16 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (0-5)**

**Lab Sample ID: 500-108325-17**

**Date Collected: 03/03/16 14:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0081	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,4-Dichlorophenol	<0.38 *		0.38	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2-Methylnaphthalene	<0.038 *		0.038	0.0069	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (0-5)**

**Lab Sample ID: 500-108325-17**

**Date Collected: 03/03/16 14:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		25 - 119	03/08/16 07:41	03/10/16 05:28	1
2-Fluorophenol	76		25 - 110	03/08/16 07:41	03/10/16 05:28	1
Nitrobenzene-d5	68		25 - 115	03/08/16 07:41	03/10/16 05:28	1
Phenol-d5	69		31 - 110	03/08/16 07:41	03/10/16 05:28	1
Terphenyl-d14	90		36 - 134	03/08/16 07:41	03/10/16 05:28	1
2,4,6-Tribromophenol	45		35 - 137	03/08/16 07:41	03/10/16 05:28	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Arsenic</b>	<b>5.8</b>		0.56	0.26	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Barium</b>	<b>36</b>		0.56	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Beryllium</b>	<b>0.64</b>		0.22	0.048	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Chromium</b>	<b>17 B</b>		0.56	0.096	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Cobalt</b>	<b>12</b>		0.28	0.063	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Copper</b>	<b>23</b>		0.56	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Iron</b>	<b>18000</b>		11	4.3	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Magnesium</b>	<b>23000 B</b>		5.6	2.3	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Calcium</b>	<b>70000 B</b>		110	36	mg/Kg	☼	03/08/16 16:09	03/10/16 04:19	10
<b>Manganese</b>	<b>330</b>		0.56	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Nickel</b>	<b>36</b>		0.56	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Thallium</b>	<b>0.33 J</b>		0.56	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Vanadium</b>	<b>19</b>		0.28	0.081	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Zinc</b>	<b>53</b>		1.1	0.35	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Potassium</b>	<b>2000</b>		28	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1
<b>Sodium</b>	<b>530</b>		56	7.4	mg/Kg	☼	03/08/16 16:09	03/10/16 02:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
<b>Barium</b>	<b>0.33 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 20:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 20:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 20:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (0-5)**

**Lab Sample ID: 500-108325-17**

**Date Collected: 03/03/16 14:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>700</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 20:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 20:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 20:30	1
<b>Magnesium</b>	<b>30</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:30	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
<b>Potassium</b>	<b>1.4 J</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 20:30	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:30	1
<b>Zinc</b>	<b>0.43 J</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 07:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:24	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:24	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:27	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.031</b>		0.019	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 12:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.15	mg/Kg	☼	03/10/16 16:40	03/11/16 17:28	1
<b>pH</b>	<b>7.92</b>		0.200	0.200	SU			03/04/16 20:50	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (5-10)**

**Lab Sample ID: 500-108325-18**

**Date Collected: 03/03/16 14:05**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0034		0.018	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Benzene	<0.00098		0.0044	0.00098	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Bromodichloromethane	<0.00075		0.0044	0.00075	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Bromoform	<0.00090		0.0044	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Bromomethane	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
2-Butanone (MEK)	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Carbon disulfide	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Carbon tetrachloride	<0.00095		0.0044	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Chlorobenzene	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Chloroethane	<0.0019		0.0044	0.0019	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Chloroform	<0.00086		0.0044	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Chloromethane	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
cis-1,2-Dichloroethene	<0.00090		0.0044	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
cis-1,3-Dichloropropene	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Dibromochloromethane	<0.00051		0.0044	0.00051	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,1-Dichloroethane	<0.00091		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,2-Dichloroethane	<0.00066		0.0044	0.00066	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,1-Dichloroethene	<0.0016		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,2-Dichloropropane	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,3-Dichloropropane, Total	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Ethylbenzene	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
2-Hexanone	<0.0014		0.0044	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Methylene Chloride	<0.0033		0.0044	0.0033	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
4-Methyl-2-pentanone (MIBK)	<0.00091		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Methyl tert-butyl ether	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Styrene	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,1,2,2-Tetrachloroethane	<0.00070		0.0044	0.00070	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Tetrachloroethene	<0.00092		0.0044	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Toluene	<0.0015		0.0044	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
trans-1,2-Dichloroethene	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
trans-1,3-Dichloropropene	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,1,1-Trichloroethane	<0.0010		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
1,1,2-Trichloroethane	<0.00086		0.0044	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Trichloroethene	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Vinyl acetate	<0.0012		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Vinyl chloride	<0.0011		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1
Xylenes, Total	<0.0016		0.0089	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/04/16 09:15	03/06/16 16:20	1
Dibromofluoromethane	106		75 - 120	03/04/16 09:15	03/06/16 16:20	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/04/16 09:15	03/06/16 16:20	1
Toluene-d8 (Surr)	107		75 - 122	03/04/16 09:15	03/06/16 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (5-10)**

**Lab Sample ID: 500-108325-18**

**Date Collected: 03/03/16 14:05**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,4-Dichlorophenol	<0.38 *		0.38	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2-Methylnaphthalene	<0.038 *		0.038	0.0070	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (5-10)**

**Lab Sample ID: 500-108325-18**

Date Collected: 03/03/16 14:05

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
Pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	27		25 - 119	03/08/16 07:41	03/10/16 05:54	1
2-Fluorophenol	81		25 - 110	03/08/16 07:41	03/10/16 05:54	1
Nitrobenzene-d5	58		25 - 115	03/08/16 07:41	03/10/16 05:54	1
Phenol-d5	78		31 - 110	03/08/16 07:41	03/10/16 05:54	1
Terphenyl-d14	86		36 - 134	03/08/16 07:41	03/10/16 05:54	1
2,4,6-Tribromophenol	50		35 - 137	03/08/16 07:41	03/10/16 05:54	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Arsenic</b>	<b>7.9</b>		0.54	0.25	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Barium</b>	<b>54</b>		0.54	0.099	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Beryllium</b>	<b>0.64</b>		0.22	0.047	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Chromium</b>	<b>18 B</b>		0.54	0.093	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Cobalt</b>	<b>18</b>		0.27	0.061	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Copper</b>	<b>22</b>		0.54	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Iron</b>	<b>19000</b>		11	4.2	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Lead</b>	<b>12</b>		0.27	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Magnesium</b>	<b>22000 B</b>		5.4	2.2	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Calcium</b>	<b>67000 B</b>		110	35	mg/Kg	☼	03/08/16 16:09	03/10/16 04:23	10
<b>Manganese</b>	<b>410</b>		0.54	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Nickel</b>	<b>44</b>		0.54	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Selenium</b>	<b>0.45 J</b>		0.54	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Thallium</b>	<b>0.65</b>		0.54	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Vanadium</b>	<b>20</b>		0.27	0.079	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Zinc</b>	<b>59</b>		1.1	0.34	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Potassium</b>	<b>2400</b>		27	4.4	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1
<b>Sodium</b>	<b>390</b>		54	7.2	mg/Kg	☼	03/08/16 16:09	03/10/16 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
<b>Barium</b>	<b>0.31 J</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 20:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 20:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 20:37	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B08 (5-10)**

**Lab Sample ID: 500-108325-18**

**Date Collected: 03/03/16 14:05**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>690</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 20:37	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 20:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 20:37	1
<b>Magnesium</b>	<b>40</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:37	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
<b>Potassium</b>	<b>2.6</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 20:37	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:37	1
<b>Zinc</b>	<b>0.86</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.044</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 07:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:28	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:28	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:28	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.020	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 12:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/10/16 16:40	03/11/16 17:28	1
<b>pH</b>	<b>7.60</b>		0.200	0.200	SU			03/04/16 21:03	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (0-5)**

**Lab Sample ID: 500-108325-19**

**Date Collected: 03/03/16 14:20**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0036		0.019	0.0036	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Benzene	<0.0010		0.0046	0.0010	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Bromodichloromethane	<0.00078		0.0046	0.00078	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Bromoform	<0.00095		0.0046	0.00095	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Bromomethane	<0.0017		0.0046	0.0017	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
2-Butanone (MEK)	<0.0016		0.0046	0.0016	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Carbon disulfide	<0.0017		0.0046	0.0017	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Carbon tetrachloride	<0.00099		0.0046	0.00099	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Chlorobenzene	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Chloroethane	<0.0019		0.0046	0.0019	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Chloroform	<0.00090		0.0046	0.00090	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Chloromethane	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
cis-1,2-Dichloroethene	<0.00095		0.0046	0.00095	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
cis-1,3-Dichloropropene	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Dibromochloromethane	<0.00053		0.0046	0.00053	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,1-Dichloroethane	<0.00095		0.0046	0.00095	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,2-Dichloroethane	<0.00069		0.0046	0.00069	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,1-Dichloroethene	<0.0017		0.0046	0.0017	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,2-Dichloropropane	<0.0012		0.0046	0.0012	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,3-Dichloropropane, Total	<0.0013		0.0046	0.0013	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Ethylbenzene	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
2-Hexanone	<0.0014		0.0046	0.0014	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Methylene Chloride	<0.0035		0.0046	0.0035	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
4-Methyl-2-pentanone (MIBK)	<0.00095		0.0046	0.00095	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Methyl tert-butyl ether	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Styrene	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,1,1,2-Tetrachloroethane	<0.00074		0.0046	0.00074	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Tetrachloroethene	<0.00096		0.0046	0.00096	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Toluene	<0.0016		0.0046	0.0016	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
trans-1,2-Dichloroethene	<0.0012		0.0046	0.0012	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
trans-1,3-Dichloropropene	<0.0013		0.0046	0.0013	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,1,1-Trichloroethane	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
1,1,2-Trichloroethane	<0.00090		0.0046	0.00090	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Trichloroethene	<0.0013		0.0046	0.0013	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Vinyl acetate	<0.0012		0.0046	0.0012	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Vinyl chloride	<0.0011		0.0046	0.0011	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1
Xylenes, Total	<0.0017		0.0093	0.0017	mg/Kg	☼	03/04/16 09:15	03/07/16 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 09:15	03/07/16 10:21	1
Dibromofluoromethane	106		75 - 120	03/04/16 09:15	03/07/16 10:21	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/04/16 09:15	03/07/16 10:21	1
Toluene-d8 (Surr)	103		75 - 122	03/04/16 09:15	03/07/16 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.015	J	0.041	0.0074	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Acenaphthylene	0.0092	J	0.041	0.0054	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Anthracene	0.056		0.041	0.0069	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Benzo[a]anthracene	0.43		0.041	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (0-5)**

**Lab Sample ID: 500-108325-19**

**Date Collected: 03/03/16 14:20**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
<b>Chrysene</b>	<b>0.54</b>		0.041	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,4-Dichlorophenol	<0.41	*	0.41	0.098	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
<b>Fluoranthene</b>	<b>1.4</b>		0.041	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
<b>Fluorene</b>	<b>0.036</b>	<b>J</b>	0.041	0.0058	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2-Methylnaphthalene	<0.041	*	0.041	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
<b>Phenanthrene</b>	<b>0.52</b>		0.041	0.0057	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (0-5)**

**Lab Sample ID: 500-108325-19**

Date Collected: 03/03/16 14:20

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
<b>Pyrene</b>	<b>1.1</b>		0.041	0.0082	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	35		25 - 119				03/08/16 07:41	03/10/16 06:20	1
2-Fluorophenol	77		25 - 110				03/08/16 07:41	03/10/16 06:20	1
Nitrobenzene-d5	66		25 - 115				03/08/16 07:41	03/10/16 06:20	1
Phenol-d5	67		31 - 110				03/08/16 07:41	03/10/16 06:20	1
Terphenyl-d14	90		36 - 134				03/08/16 07:41	03/10/16 06:20	1
2,4,6-Tribromophenol	56		35 - 137				03/08/16 07:41	03/10/16 06:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.67</b>		0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 14:08	5
<b>Benzo[b]fluoranthene</b>	<b>1.0</b>		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 14:08	5
<b>Benzo[g,h,i]perylene</b>	<b>0.46</b>		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 14:08	5
<b>Benzo[k]fluoranthene</b>	<b>0.43</b>		0.20	0.061	mg/Kg	☼	03/08/16 07:41	03/10/16 14:08	5
<b>Dibenz(a,h)anthracene</b>	<b>0.092</b>	J	0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 14:08	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.54</b>		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 14:08	5

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Arsenic</b>	<b>8.8</b>		0.59	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Barium</b>	<b>100</b>		0.59	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Beryllium</b>	<b>0.71</b>		0.24	0.051	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Cadmium</b>	<b>0.23</b>		0.12	0.034	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Chromium</b>	<b>19</b>	B	0.59	0.10	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Cobalt</b>	<b>9.7</b>		0.29	0.067	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Copper</b>	<b>25</b>		0.59	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Iron</b>	<b>19000</b>		12	4.5	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Lead</b>	<b>130</b>		0.29	0.15	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Magnesium</b>	<b>7600</b>	B	5.9	2.4	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Calcium</b>	<b>12000</b>	B	12	3.8	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Manganese</b>	<b>450</b>		0.59	0.12	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Nickel</b>	<b>23</b>		0.59	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Selenium</b>	<b>0.77</b>		0.59	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Vanadium</b>	<b>24</b>		0.29	0.086	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Zinc</b>	<b>100</b>		1.2	0.37	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Potassium</b>	<b>1400</b>		29	4.8	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1
<b>Sodium</b>	<b>540</b>		59	7.8	mg/Kg	☼	03/08/16 16:09	03/10/16 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (0-5)**

**Lab Sample ID: 500-108325-19**

**Date Collected: 03/03/16 14:20**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		03/10/16 14:47	03/11/16 20:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 20:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 20:44	1
<b>Calcium</b>	<b>250</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 20:44	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 20:44	1
<b>Lead</b>	<b>0.014</b>		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 20:44	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:44	1
<b>Manganese</b>	<b>0.45</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1
<b>Potassium</b>	<b>8.7</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 20:44	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:44	1
<b>Zinc</b>	<b>0.89</b>		0.50	0.020	mg/L		03/10/16 14:47	03/11/16 20:44	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>0.25</b>		0.0075	0.0075	mg/L		03/10/16 16:43	03/12/16 07:38	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 07:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:40	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:40	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.069</b>		0.018	0.0095	mg/Kg	☼	03/04/16 17:00	03/07/16 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/10/16 16:40	03/11/16 17:29	1
<b>pH</b>	<b>8.12</b>		0.200	0.200	SU			03/04/16 21:17	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (5-10)**

**Lab Sample ID: 500-108325-20**

**Date Collected: 03/03/16 14:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0037		0.019	0.0037	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Benzene	<0.0011		0.0048	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Bromodichloromethane	<0.00081		0.0048	0.00081	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Bromoform	<0.00098		0.0048	0.00098	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Bromomethane	<0.0018		0.0048	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
2-Butanone (MEK)	<0.0017		0.0048	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Carbon disulfide	<0.0018		0.0048	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Carbon tetrachloride	<0.0010		0.0048	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Chlorobenzene	<0.0011		0.0048	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Chloroethane	<0.0020		0.0048	0.0020	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Chloroform	<0.00094		0.0048	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Chloromethane	<0.0012		0.0048	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
cis-1,2-Dichloroethene	<0.00098		0.0048	0.00098	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
cis-1,3-Dichloropropene	<0.0011		0.0048	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Dibromochloromethane	<0.00055		0.0048	0.00055	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,1-Dichloroethane	<0.00099		0.0048	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,2-Dichloroethane	<0.00071		0.0048	0.00071	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,1-Dichloroethene	<0.0017		0.0048	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,2-Dichloropropane	<0.0013		0.0048	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,3-Dichloropropene, Total	<0.0014		0.0048	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Ethylbenzene	<0.0012		0.0048	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
2-Hexanone	<0.0015		0.0048	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Methylene Chloride	<0.0036		0.0048	0.0036	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.00099		0.0048	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Methyl tert-butyl ether	<0.0011		0.0048	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Styrene	<0.0011		0.0048	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,1,1,2-Tetrachloroethane	<0.00076 *		0.0048	0.00076	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Tetrachloroethene	<0.0010		0.0048	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Toluene	<0.0017		0.0048	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
trans-1,2-Dichloroethene	<0.0012		0.0048	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
trans-1,3-Dichloropropene	<0.0014		0.0048	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,1,1-Trichloroethane	<0.0011		0.0048	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
1,1,2-Trichloroethane	<0.00093		0.0048	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Trichloroethene	<0.0013		0.0048	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Vinyl acetate	<0.0013		0.0048	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Vinyl chloride	<0.0011		0.0048	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1
Xylenes, Total	<0.0018		0.0096	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	03/04/16 09:15	03/06/16 17:10	1
Dibromofluoromethane	109		75 - 120	03/04/16 09:15	03/06/16 17:10	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	03/04/16 09:15	03/06/16 17:10	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 09:15	03/06/16 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (5-10)**

**Lab Sample ID: 500-108325-20**

**Date Collected: 03/03/16 14:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,4-Dichlorophenol	<0.39 *		0.39	0.094	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2-Methylnaphthalene	<0.039 *		0.039	0.0073	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (5-10)**

**Lab Sample ID: 500-108325-20**

Date Collected: 03/03/16 14:25

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/08/16 07:41	03/10/16 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		25 - 119	03/08/16 07:41	03/10/16 06:46	1
2-Fluorophenol	119	X	25 - 110	03/08/16 07:41	03/10/16 06:46	1
Nitrobenzene-d5	67		25 - 115	03/08/16 07:41	03/10/16 06:46	1
Phenol-d5	95		31 - 110	03/08/16 07:41	03/10/16 06:46	1
Terphenyl-d14	93		36 - 134	03/08/16 07:41	03/10/16 06:46	1
2,4,6-Tribromophenol	65		35 - 137	03/08/16 07:41	03/10/16 06:46	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Arsenic</b>	<b>7.0</b>		0.58	0.27	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Barium</b>	<b>28</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Beryllium</b>	<b>0.55</b>		0.23	0.050	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.58	0.099	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Cobalt</b>	<b>14</b>		0.29	0.065	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Copper</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Iron</b>	<b>19000</b>		12	4.4	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Magnesium</b>	<b>24000</b>	<b>B</b>	5.8	2.3	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Calcium</b>	<b>51000</b>	<b>B</b>	120	37	mg/Kg	☼	03/08/16 16:09	03/10/16 04:31	10
<b>Manganese</b>	<b>510</b>		0.58	0.11	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Nickel</b>	<b>38</b>		0.58	0.16	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Selenium</b>	<b>0.74</b>		0.58	0.29	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Thallium</b>	<b>0.84</b>		0.58	0.28	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Vanadium</b>	<b>16</b>		0.29	0.084	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Zinc</b>	<b>45</b>		1.2	0.36	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Potassium</b>	<b>1900</b>		29	4.7	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1
<b>Sodium</b>	<b>910</b>		58	7.6	mg/Kg	☼	03/08/16 16:09	03/10/16 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.050	mg/L		03/10/16 14:47	03/11/16 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/10/16 14:47	03/11/16 20:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/10/16 14:47	03/11/16 20:51	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (5-10)**

**Lab Sample ID: 500-108325-20**

**Date Collected: 03/03/16 14:25**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>450</b>		5.0	0.50	mg/L		03/10/16 14:47	03/11/16 20:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
Cobalt	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
Copper	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
Iron	<0.40		0.40	0.20	mg/L		03/10/16 14:47	03/11/16 20:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/10/16 14:47	03/11/16 20:51	1
<b>Magnesium</b>	<b>87</b>		2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:51	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
Nickel	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
<b>Potassium</b>	<b>2.1</b>	<b>J F1</b>	2.5	0.50	mg/L		03/10/16 14:47	03/11/16 20:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/10/16 14:47	03/11/16 20:51	1
Silver	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
Vanadium	<0.025		0.025	0.010	mg/L		03/10/16 14:47	03/11/16 20:51	1
<b>Zinc</b>	<b>0.98</b>	<b>F1</b>	0.50	0.020	mg/L		03/10/16 14:47	03/11/16 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		03/10/16 16:43	03/12/16 07:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/10/16 14:47	03/11/16 16:44	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/10/16 14:47	03/11/16 16:44	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/10/16 20:00	03/12/16 15:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.023</b>		0.018	0.0094	mg/Kg	☼	03/04/16 17:00	03/07/16 13:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/10/16 16:40	03/11/16 17:29	1
<b>pH</b>	<b>7.75</b>		0.200	0.200	SU			03/04/16 21:30	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

Client Sample ID: 2633-13-B09 (10-15)

Lab Sample ID: 500-108325-21

Date Collected: 03/03/16 14:30

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0032		0.016	0.0032	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Benzene	<0.00091		0.0041	0.00091	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Bromodichloromethane	<0.00069		0.0041	0.00069	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Bromoform	<0.00083		0.0041	0.00083	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Bromomethane	<0.0015		0.0041	0.0015	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
2-Butanone (MEK)	<0.0015		0.0041	0.0015	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Carbon disulfide	<0.0015		0.0041	0.0015	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Carbon tetrachloride	<0.00088		0.0041	0.00088	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Chlorobenzene	<0.00097		0.0041	0.00097	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Chloroethane	<0.0017		0.0041	0.0017	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Chloroform	<0.00080		0.0041	0.00080	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Chloromethane	<0.00098		0.0041	0.00098	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
cis-1,2-Dichloroethene	<0.00083		0.0041	0.00083	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
cis-1,3-Dichloropropene	<0.00093		0.0041	0.00093	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Dibromochloromethane	<0.00047		0.0041	0.00047	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,1-Dichloroethane	<0.00084		0.0041	0.00084	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,2-Dichloroethane	<0.00061		0.0041	0.00061	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,1-Dichloroethene	<0.0015		0.0041	0.0015	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,2-Dichloropropane	<0.0011		0.0041	0.0011	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,3-Dichloropropene, Total	<0.0012		0.0041	0.0012	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Ethylbenzene	<0.0010		0.0041	0.0010	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
2-Hexanone	<0.0013		0.0041	0.0013	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Methylene Chloride	<0.0031		0.0041	0.0031	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
4-Methyl-2-pentanone (MIBK)	<0.00084		0.0041	0.00084	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Methyl tert-butyl ether	<0.00097		0.0041	0.00097	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Styrene	<0.00096		0.0041	0.00096	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0041	0.00065	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Tetrachloroethene	<0.00085		0.0041	0.00085	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Toluene	<0.0014		0.0041	0.0014	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
trans-1,2-Dichloroethene	<0.0010		0.0041	0.0010	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
trans-1,3-Dichloropropene	<0.0012		0.0041	0.0012	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,1,1-Trichloroethane	<0.00095		0.0041	0.00095	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
1,1,2-Trichloroethane	<0.00079		0.0041	0.00079	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Trichloroethene	<0.0011		0.0041	0.0011	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Vinyl acetate	<0.0011		0.0041	0.0011	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Vinyl chloride	<0.00097		0.0041	0.00097	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1
Xylenes, Total	<0.0015		0.0082	0.0015	mg/Kg	*	03/04/16 09:15	03/06/16 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	03/04/16 09:15	03/06/16 17:35	1
Dibromofluoromethane	106		75 - 120	03/04/16 09:15	03/06/16 17:35	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/04/16 09:15	03/06/16 17:35	1
Toluene-d8 (Surr)	108		75 - 122	03/04/16 09:15	03/06/16 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

Client Sample ID: 2633-13-B09 (10-15)

Lab Sample ID: 500-108325-21

Date Collected: 03/03/16 14:30

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Carbazole	<0.20		0.20	0.099	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Chrysene	<0.039		0.039	0.011	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1

TestAmerica Chicago



## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (10-15)**

Date Collected: 03/03/16 14:30

Date Received: 03/04/16 08:45

**Lab Sample ID: 500-108325-21**

Matrix: Solid

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Phenanthrene	0.071		0.039	0.0055	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Phenol	<0.20		0.20	0.088	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	*	03/08/16 07:20	03/09/16 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	03/08/16 07:20	03/09/16 00:56	1
2-Fluorophenol	66		25 - 110	03/08/16 07:20	03/09/16 00:56	1
Nitrobenzene-d5	65		25 - 115	03/08/16 07:20	03/09/16 00:56	1
Phenol-d5	60		31 - 110	03/08/16 07:20	03/09/16 00:56	1
Terphenyl-d14	99		36 - 134	03/08/16 07:20	03/09/16 00:56	1
2,4,6-Tribromophenol	82		35 - 137	03/08/16 07:20	03/09/16 00:56	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Arsenic	7.3		0.55	0.25	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Barium	51		0.55	0.10	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Beryllium	0.56		0.22	0.048	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Cadmium	0.064	J B	0.11	0.032	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Chromium	15	B	0.55	0.095	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Cobalt	12		0.28	0.062	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Copper	25		0.55	0.12	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Iron	17000	B	11	4.2	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Lead	13		0.28	0.14	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Magnesium	26000	B	5.5	2.2	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Calcium	61000	B	110	35	mg/Kg	*	03/08/16 15:34	03/09/16 18:16	10
Manganese	330	B	0.55	0.11	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Nickel	31		0.55	0.15	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Selenium	0.43	J	0.55	0.27	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Silver	<0.28		0.28	0.064	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Thallium	<0.55		0.55	0.27	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Vanadium	17		0.28	0.080	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Zinc	48		1.1	0.35	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Potassium	2100		28	4.5	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1
Sodium	550		55	7.3	mg/Kg	*	03/08/16 15:34	03/09/16 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
Barium	0.64		0.50	0.050	mg/L		03/09/16 15:27	03/10/16 19:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 19:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 19:41	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

**Client Sample ID: 2633-13-B09 (10-15)**

**Lab Sample ID: 500-108325-21**

**Date Collected: 03/03/16 14:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>570</b>		5.0	0.50	mg/L		03/09/16 15:27	03/10/16 19:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 19:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 19:41	1
<b>Magnesium</b>	<b>28</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 19:41	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
<b>Nickel</b>	<b>0.056</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
<b>Potassium</b>	<b>6.1</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 19:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 19:41	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
Vanadium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:41	1
<b>Zinc</b>	<b>0.13</b>	<b>J B</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.044</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/09/16 15:27	03/09/16 22:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/09/16 15:27	03/09/16 22:51	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/09/16 17:30	03/11/16 11:28	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.028</b>		0.019	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 11:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/10/16 16:40	03/11/16 17:30	1
<b>pH</b>	<b>7.80</b>		0.200	0.200	SU			03/04/16 21:44	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

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

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-2

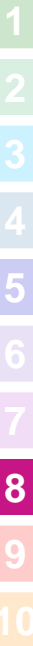
## Laboratory: TestAmerica Chicago

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

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

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

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional) \_\_\_\_\_ Bill To (optional) \_\_\_\_\_  
 Contact: Matt Weiss Contact: \_\_\_\_\_  
 Company: Terracon Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: 630-217-4263 Phone: \_\_\_\_\_  
 Fax: 630-357-9499 Fax: \_\_\_\_\_  
 E-Mail: matt.weiss@terracon.com PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108325  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23		Inorganics		TLLP 23		Inorganics		PH		SPLP 23		Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Parameter		Parameter		Total 23		Inorganics		TLLP 23		Inorganics		PH		SPLP 23		Inorganics		
Project Location/State		Lab Project #		Parameter		Parameter		Total 23		Inorganics		TLLP 23		Inorganics		PH		SPLP 23		Inorganics		Comments
Sampler		Lab PM		Parameter		Parameter		Total 23		Inorganics		TLLP 23		Inorganics		PH		SPLP 23		Inorganics		
Lab ID	MIS/MSD	Sample ID		Sampling		# of Containers	Matrix	Total 23		Inorganics		TLLP 23		Inorganics		PH		SPLP 23		Inorganics		Comments
		Date	Time					Total 23		Inorganics		TLLP 23		Inorganics		PH		SPLP 23		Inorganics		
9		2633-13-B05 (0-5)	2/3/16	11:40	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	HOLD SPLP Analysis
10		2633-13-B05 (5-11)	2/3/16	11:45	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11		2633-13-B06 (0-5)	3/3/16	12:20	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12		2633-13-B06 (0-5) Dup	3/3/16	12:25	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13		2633-13-B06 (5-10)	3/3/16	12:30	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14		2633-13-B07 (0-5)	3/3/16	12:50	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15		2633-13-B07 (5-10)	3/3/16	12:55	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16		2633-13-B07 (10-15)	3/3/16	1:00	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
17		2633-13-B08 (0-5)	3/3/16	2:00	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18		2633-13-B08 (5-10)	3/3/16	2:05	6	S		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Turnaround Time Required (Business Days)  1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_  
 Sample Disposal:  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>David Kelly</u> Company: <u>Terracon</u> Date: <u>3/4/16</u> Time: <u>800</u>	Received By: <u>David Becker</u> Company: <u>TA</u> Date: <u>3/4/16</u> Time: <u>0800</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>David Becker</u> Company: <u>TA</u> Date: <u>3/4/16</u> Time: <u>0845</u>	Received By: <u>Shawn Smith</u> Company: <u>TA-PHI</u> Date: <u>3/4/16</u> Time: <u>0845</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

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

Client Comments: Met IL TACO Requirements & Please HOLD SPLP Analysis. Thank you.

Lab Comments: \_\_\_\_\_



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terralon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-357-9489  
 E-Mail: Matt.Weiss@terralon.com

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

## Chain of Custody Record

Lab Job #: 500-108325

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23 Inorganics		TCLP 23 Inorganics		pH		SPLP 23 Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Project Location/State		Sampler		Date		Time		# of Containers		Matrix		
		<u>11157115</u>				<u>Labrage, IL</u>		<u>CTK</u>								
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	Volcs	SVOCs	Total 23 Inorganics	TCLP 23 Inorganics	pH	SPLP 23 Inorganics	Comments			
<u>19</u>		<u>2633-13-009 (0-5)</u>	<u>3/3/16</u>	<u>2:20</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>HOLD SPLP</u>			
<u>20</u>		<u>2633-13-009 (5-10)</u>	<u>3/3/16</u>	<u>2:25</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>Analysis</u>			
<u>21</u>		<u>2633-13-009 (10-15)</u>	<u>3/3/16</u>	<u>2:30</u>	<u>6</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

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

Relinquished By <u>David Beckler</u> Company <u>Terralon</u>	Date <u>3/4/16</u>	Time <u>0800</u>	Received By <u>David Beckler</u> Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>0800</u>
Relinquished By <u>David Beckler</u> Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>0845</u>	Received By <u>David Beckler</u> Company <u>TA-CHL</u>	Date <u>3/4/16</u>	Time <u>0845</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

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

Client Comments: met IL TACO requirements & please HOLD SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_

# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108325-2

**Login Number: 108325**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.0,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

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

US 34 (near US 34 and LaGrange Rd intersection) from IDOT STA 108+00 to 109+30 (ISGS Site 2633-14)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

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

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

Email, if available: sam.mead@illinois.gov

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B06 was sampled adjacent to ISGS Site No 2633-14.  
See Exhibits 3, 3C, and Table 20 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J108325-3. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Michael Roche (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

Company Name: Terracon Consultants, Inc  
 Street Address: 135 Ambassador Drive  
 City: Naperville State: IL Zip Code: 60540  
 Phone: 630-717-4263

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-14-B06 (0-5)	2633-14-B06 (5-10)	2633-14-B06 (5-10) Dup
				CCDD	Sample Depth (feet)	(0-5)	(5-10)	(5-10)
		mg/kg	Date Collected	03/03/2016	03/03/2016	03/03/2016		
		pH 6.25-9.0						
<b>Semivolatile Organic Analytical Parameters</b>								
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.019	<0.038	<0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.035	<0.038	<0.038
Chrysene	mg/kg	1.2	2.7	88		0.022	0.022	0.03
Fluoranthene	mg/kg	2.7	4.1	3100		0.029	<0.038	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		0.014	0.036	0.032
Pyrene	mg/kg	1.9	3.0	2300		0.027	0.014	0.021
2-Methylnaphthalene	mg/kg	---	0.14	---		<0.038	0.0078	<0.038
<b>Inorganic Analytical Parameters</b>								
Arsenic	mg/kg	---	13	11.3		11	7.7	11
Barium	mg/kg	---	110	1500		88	32	37
Cadmium	mg/kg	---	0.6	5.2		0.18	0.12	0.07
Chromium, total	mg/kg	---	16.2	21		13	14	15
Lead	mg/kg	---	36	107		22	14	16
Mercury	mg/kg	---	0.06	0.1		0.032	0.034	0.041
Selenium	mg/kg	---	0.48	1.3		0.76	0.38	<0.54
Silver	mg/kg	---	0.55	4.4		<0.28	<0.27	<0.27
Antimony	mg/kg	---	4.0	5		0.71	<1.1	<1.1
Beryllium	mg/kg	---	0.59	22		0.62	0.56	0.58
Calcium	mg/kg	---	9,300	---		15000	53000	47000
Cobalt	mg/kg	---	8.9	20		11	10	12
Copper	mg/kg	---	19.6	2900		26	25	26
Cyanide	mg/kg	---	0.51	---		<0.56	<0.45	<0.56
Iron	mg/kg	---	15,900	15000		25000	18000	24000
Magnesium	mg/kg	---	4,820	325000		11000	25000	21000
Manganese	mg/kg	---	636	630		480	250	220
Nickel	mg/kg	---	18	100		28	29	35
Potassium	mg/kg	---	1,268	---		1100	2200	2000
Sodium	mg/kg	---	130	---		1100	440	490
Thallium	mg/kg	---	0.32	2.6		0.3	0.31	<0.54
Vanadium	mg/kg	---	25.2	550		20	16	16
Zinc	mg/kg	---	95	5100		74	57	66
pH			6.25	9		8.55	8.16	7.98
<b>Inorganic Analytical Parameters (SPLP)</b>								
Antimony,SPLP	mg/L	---	---	---		--	--	--
Arsenic,SPLP	mg/L	---	---	---		--	--	--
Barium,SPLP	mg/L	---	---	---		--	--	--
Beryllium,SPLP	mg/L	---	---	---		--	--	--
Cadmium,SPLP	mg/L	---	---	---		--	--	--
Calcium,SPLP	mg/L	---	---	---		--	--	--
Chromium,SPLP	mg/L	---	---	---		--	--	--
Cobalt,SPLP	mg/L	---	---	---		--	--	--
Copper,SPLP	mg/L	---	---	---		--	--	--
Iron,SPLP	mg/L	---	---	---		--	--	--
Lead,SPLP	mg/L	---	---	---		--	--	--
Magnesium,SPLP	mg/L	---	---	---		--	--	--
Manganese,SPLP	mg/L	---	---	---		0.5	0.055	0.3
Mercury,SPLP	mg/L	---	---	---		--	--	--
Nickel,SPLP	mg/L	---	---	---		--	--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-14-B06 (0-5)	2633-14-B06 (5-10)	2633-14-B06 (5-10) Dup
				CCDD	Sample Depth (feet)	(0-5)	(5-10)	(5-10)
		mg/kg	Date Collected	03/03/2016	03/03/2016	03/03/2016		
		pH 6.25-9.0						
Potassium,SPLP	mg/L	---	---	---		--	--	--
Selenium,SPLP	mg/L	---	---	---		--	--	--
Silver,SPLP	mg/L	---	---	---		--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--
<b>Inorganic Analytical Parameters (TCLP)</b>								
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.38	0.45	0.38
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		300	470	440
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.01	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		100	66	49
Manganese,TCLP	mg/L	---	---	---		0.66	0.91	0.71
Nickel,TCLP	mg/L	---	---	---		<0.025	0.021	<0.025
Potassium,TCLP	mg/L	---	---	---		3.7	3.4	2.7
Sodium,TCLP	mg/L	---	---	---		----	----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.12	0.2	0.23

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108325-3

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/16/2016 4:37:52 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Job ID: 500-108325-3**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative  
500-108325-3**

### Comments

No additional comments.

### Receipt

The samples were received on 3/4/2016 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 2.7° C and 3.0° C.

### GC/MS VOA

Method(s) 8260B: The following analytes recovered outside control limits for the LCS/LCSD associated with 325772: 1,1,2,2-Tetrachloroethane and Vinyl Acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Metals

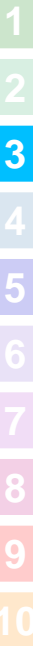
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (0-5)**

**Lab Sample ID: 500-108325-22**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	35		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	36		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	28		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9400		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.11		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-14-B05 (5-10)**

**Lab Sample ID: 500-108325-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.027	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0097	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.051		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.35	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

## Client Sample ID: 2633-14-B05 (5-10) (Continued)

## Lab Sample ID: 500-108325-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	16		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	350		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.055		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.18	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.054		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.08		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-14-B06 (0-5)

## Lab Sample ID: 500-108325-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.019	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.035	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.029	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.71	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	480		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

## Client Sample ID: 2633-14-B06 (0-5) (Continued)

## Lab Sample ID: 500-108325-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.55		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-14-B06 (5-10)

## Lab Sample ID: 500-108325-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0078	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.036	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.53	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	250		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.31	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		53	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	66		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.91		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.4		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.055		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	8.16		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-14-B06 (5-10) Dup

## Lab Sample ID: 500-108325-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.030	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	11		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10) Dup (Continued)**

**Lab Sample ID: 500-108325-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	37		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.070	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	47000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	220		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	49		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	7.98		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108325-22	2633-14-B05 (0-5)	Solid	03/03/16 14:55	03/04/16 08:45
500-108325-23	2633-14-B05 (5-10)	Solid	03/03/16 15:00	03/04/16 08:45
500-108325-24	2633-14-B06 (0-5)	Solid	03/03/16 15:30	03/04/16 08:45
500-108325-25	2633-14-B06 (5-10)	Solid	03/03/16 15:35	03/04/16 08:45
500-108325-26	2633-14-B06 (5-10) Dup	Solid	03/03/16 15:40	03/04/16 08:45

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (0-5)**

**Lab Sample ID: 500-108325-22**

**Date Collected: 03/03/16 14:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,1,1,2-Tetrachloroethane	<0.0040 *		0.0040	0.00064	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 09:15	03/06/16 18:00	1
Dibromofluoromethane	108		75 - 120	03/04/16 09:15	03/06/16 18:00	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	03/04/16 09:15	03/06/16 18:00	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 09:15	03/06/16 18:00	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (0-5)**

**Lab Sample ID: 500-108325-22**

**Date Collected: 03/03/16 14:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (0-5)**

**Lab Sample ID: 500-108325-22**

**Date Collected: 03/03/16 14:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	03/08/16 07:20	03/09/16 01:24	1
2-Fluorophenol	65		25 - 110	03/08/16 07:20	03/09/16 01:24	1
Nitrobenzene-d5	64		25 - 115	03/08/16 07:20	03/09/16 01:24	1
Phenol-d5	47		31 - 110	03/08/16 07:20	03/09/16 01:24	1
Terphenyl-d14	102		36 - 134	03/08/16 07:20	03/09/16 01:24	1
2,4,6-Tribromophenol	92		35 - 137	03/08/16 07:20	03/09/16 01:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Arsenic</b>	<b>35</b>		0.60	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Barium</b>	<b>69</b>		0.60	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Beryllium</b>	<b>0.61</b>		0.24	0.052	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Cadmium</b>	<b>0.32</b>		0.12	0.034	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Chromium</b>	<b>11</b>		0.60	0.10	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Cobalt</b>	<b>12</b>		0.30	0.067	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Copper</b>	<b>36</b>		0.60	0.13	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Iron</b>	<b>28000</b>		12	4.6	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Lead</b>	<b>28</b>		0.30	0.15	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Magnesium</b>	<b>9400</b>		6.0	2.4	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Calcium</b>	<b>12000</b>		12	3.8	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Manganese</b>	<b>290</b>		0.60	0.12	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Nickel</b>	<b>31</b>		0.60	0.16	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Selenium</b>	<b>0.66</b>		0.60	0.29	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Vanadium</b>	<b>20</b>		0.30	0.087	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Zinc</b>	<b>100</b>		1.2	0.38	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Potassium</b>	<b>1200</b>		30	4.9	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1
<b>Sodium</b>	<b>1100</b>		60	7.9	mg/Kg	☼	03/08/16 15:34	03/09/16 16:25	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 19:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 19:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 19:48	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (0-5)**

**Lab Sample ID: 500-108325-22**

**Date Collected: 03/03/16 14:55**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>240</b>		5.0	0.50	mg/L		03/09/16 15:27	03/10/16 19:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 19:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 19:48	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 19:48	1
<b>Manganese</b>	<b>4.4</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
<b>Potassium</b>	<b>1.6 J</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 19:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 19:48	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
Vanadium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:48	1
<b>Zinc</b>	<b>0.16 J</b>		0.50	0.020	mg/L		03/09/16 15:27	03/10/16 19:48	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 08:54	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/09/16 15:27	03/09/16 22:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/09/16 15:27	03/09/16 22:55	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/09/16 17:30	03/11/16 11:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.040</b>		0.018	0.0096	mg/Kg	☼	03/04/16 17:00	03/07/16 11:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/10/16 16:40	03/11/16 17:30	1
<b>pH</b>	<b>8.11</b>		0.200	0.200	SU			03/04/16 21:57	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (5-10)**

**Lab Sample ID: 500-108325-23**

**Date Collected: 03/03/16 15:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,1,1,2-Tetrachloroethane	<0.0043 *		0.0043	0.00068	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Vinyl acetate	<0.0043 *		0.0043	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	03/04/16 09:15	03/06/16 18:26	1
Dibromofluoromethane	108		75 - 120	03/04/16 09:15	03/06/16 18:26	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/04/16 09:15	03/06/16 18:26	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 09:15	03/06/16 18:26	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (5-10)**

**Lab Sample ID: 500-108325-23**

**Date Collected: 03/03/16 15:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
<b>2-Methylnaphthalene</b>	<b>0.0097</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (5-10)**

**Lab Sample ID: 500-108325-23**

Date Collected: 03/03/16 15:00

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 84.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
<b>Phenanthrene</b>	<b>0.051</b>		0.038	0.0053	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
<b>Pyrene</b>	<b>0.015 J</b>		0.038	0.0076	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	03/08/16 07:20	03/09/16 01:50	1
2-Fluorophenol	63		25 - 110	03/08/16 07:20	03/09/16 01:50	1
Nitrobenzene-d5	64		25 - 115	03/08/16 07:20	03/09/16 01:50	1
Phenol-d5	63		31 - 110	03/08/16 07:20	03/09/16 01:50	1
Terphenyl-d14	106		36 - 134	03/08/16 07:20	03/09/16 01:50	1
2,4,6-Tribromophenol	86		35 - 137	03/08/16 07:20	03/09/16 01:50	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Arsenic</b>	<b>8.2</b>		0.56	0.26	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Barium</b>	<b>29</b>		0.56	0.10	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Beryllium</b>	<b>0.56</b>		0.22	0.048	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.032	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Chromium</b>	<b>15</b>		0.56	0.096	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Cobalt</b>	<b>14</b>		0.28	0.063	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Copper</b>	<b>25</b>		0.56	0.12	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Iron</b>	<b>18000</b>		11	4.3	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Lead</b>	<b>15</b>		0.28	0.14	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Magnesium</b>	<b>25000</b>		5.6	2.3	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Calcium</b>	<b>53000 B</b>		110	36	mg/Kg	☼	03/08/16 15:34	03/09/16 18:21	10
<b>Manganese</b>	<b>310</b>		0.56	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Nickel</b>	<b>34</b>		0.56	0.15	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Selenium</b>	<b>0.34 J</b>		0.56	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Thallium</b>	<b>0.35 J</b>		0.56	0.27	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Vanadium</b>	<b>16</b>		0.28	0.081	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Zinc</b>	<b>54</b>		1.1	0.35	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Potassium</b>	<b>2300</b>		28	4.5	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1
<b>Sodium</b>	<b>350</b>		56	7.3	mg/Kg	☼	03/08/16 15:34	03/09/16 16:30	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		03/09/16 15:27	03/10/16 19:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 19:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 19:54	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B05 (5-10)**

**Lab Sample ID: 500-108325-23**

**Date Collected: 03/03/16 15:00**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>530</b>		5.0	0.50	mg/L		03/09/16 15:27	03/10/16 19:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 19:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 19:54	1
<b>Magnesium</b>	<b>46</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 19:54	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
<b>Nickel</b>	<b>0.055</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
<b>Potassium</b>	<b>5.9</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 19:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 19:54	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
Vanadium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 19:54	1
<b>Zinc</b>	<b>0.18</b>	<b>J</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 19:54	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 09:01	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/09/16 15:27	03/09/16 22:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/09/16 15:27	03/09/16 22:56	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/09/16 17:30	03/11/16 11:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.054</b>		0.018	0.0094	mg/Kg	☼	03/04/16 17:00	03/07/16 11:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/10/16 16:40	03/11/16 17:32	1
<b>pH</b>	<b>8.08</b>		0.200	0.200	SU			03/04/16 22:10	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (0-5)**

**Lab Sample ID: 500-108325-24**

**Date Collected: 03/03/16 15:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Bromodichloromethane	<0.0049		0.0049	0.00083	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Chloroform	<0.0049		0.0049	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,1,1,2-Tetrachloroethane	<0.0049 *		0.0049	0.00078	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Vinyl acetate	<0.0049 *		0.0049	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1
Xylenes, Total	<0.0098		0.0098	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/04/16 09:15	03/06/16 18:51	1
Dibromofluoromethane	108		75 - 120	03/04/16 09:15	03/06/16 18:51	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/04/16 09:15	03/06/16 18:51	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 09:15	03/06/16 18:51	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (0-5)**

**Lab Sample ID: 500-108325-24**

**Date Collected: 03/03/16 15:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0073	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
<b>Benzo[b]fluoranthene</b>	<b>0.035</b>	<b>J</b>	0.038	0.0082	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
<b>Chrysene</b>	<b>0.022</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
<b>Fluoranthene</b>	<b>0.029</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (0-5)**

**Lab Sample ID: 500-108325-24**

Date Collected: 03/03/16 15:30

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 83.9

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
<b>Phenanthrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
<b>Pyrene</b>	<b>0.027</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	03/08/16 07:20	03/09/16 02:17	1
2-Fluorophenol	67		25 - 110	03/08/16 07:20	03/09/16 02:17	1
Nitrobenzene-d5	70		25 - 115	03/08/16 07:20	03/09/16 02:17	1
Phenol-d5	47		31 - 110	03/08/16 07:20	03/09/16 02:17	1
Terphenyl-d14	110		36 - 134	03/08/16 07:20	03/09/16 02:17	1
2,4,6-Tribromophenol	85		35 - 137	03/08/16 07:20	03/09/16 02:17	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.71</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Arsenic</b>	<b>11</b>		0.56	0.26	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Barium</b>	<b>88</b>		0.56	0.10	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Beryllium</b>	<b>0.62</b>		0.23	0.049	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Cadmium</b>	<b>0.18</b>		0.11	0.033	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Chromium</b>	<b>13</b>		0.56	0.097	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Cobalt</b>	<b>11</b>		0.28	0.064	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Copper</b>	<b>26</b>		0.56	0.12	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Iron</b>	<b>25000</b>		11	4.3	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Lead</b>	<b>22</b>		0.28	0.14	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Magnesium</b>	<b>11000</b>		5.6	2.3	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Calcium</b>	<b>15000</b>		11	3.6	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Manganese</b>	<b>480</b>		0.56	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Nickel</b>	<b>28</b>		0.56	0.15	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Selenium</b>	<b>0.76</b>		0.56	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Thallium</b>	<b>0.30</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Vanadium</b>	<b>20</b>		0.28	0.082	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Zinc</b>	<b>74</b>		1.1	0.36	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Potassium</b>	<b>1100</b>		28	4.6	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1
<b>Sodium</b>	<b>1100</b>		56	7.4	mg/Kg	☼	03/08/16 15:34	03/09/16 16:35	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 20:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 20:01	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (0-5)**

**Lab Sample ID: 500-108325-24**

**Date Collected: 03/03/16 15:30**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 83.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>300</b>		5.0	0.50	mg/L		03/09/16 15:27	03/10/16 20:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 20:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 20:01	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 20:01	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
<b>Potassium</b>	<b>3.7</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 20:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 20:01	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
Vanadium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:01	1
<b>Zinc</b>	<b>0.12 J</b>		0.50	0.020	mg/L		03/09/16 15:27	03/10/16 20:01	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.50</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 09:08	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/09/16 15:27	03/09/16 22:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/09/16 15:27	03/09/16 22:57	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/09/16 17:30	03/11/16 11:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.032</b>		0.017	0.0090	mg/Kg	☼	03/04/16 17:00	03/07/16 11:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/10/16 16:40	03/11/16 17:32	1
<b>pH</b>	<b>8.55</b>		0.200	0.200	SU			03/04/16 22:24	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10)**

**Lab Sample ID: 500-108325-25**

**Date Collected: 03/03/16 15:35**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 86.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,1,2,2-Tetrachloroethane	<0.0041	*	0.0041	0.00065	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	03/04/16 09:15	03/06/16 19:16	1
Dibromofluoromethane	107		75 - 120	03/04/16 09:15	03/06/16 19:16	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 09:15	03/06/16 19:16	1
Toluene-d8 (Surr)	108		75 - 122	03/04/16 09:15	03/06/16 19:16	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10)**

**Lab Sample ID: 500-108325-25**

**Date Collected: 03/03/16 15:35**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 86.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
<b>Chrysene</b>	<b>0.022</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
<b>2-Methylnaphthalene</b>	<b>0.0078</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10)**

**Lab Sample ID: 500-108325-25**

Date Collected: 03/03/16 15:35

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 86.8

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
<b>Phenanthrene</b>	<b>0.036</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		25 - 119	03/08/16 07:20	03/09/16 02:44	1
2-Fluorophenol	64		25 - 110	03/08/16 07:20	03/09/16 02:44	1
Nitrobenzene-d5	66		25 - 115	03/08/16 07:20	03/09/16 02:44	1
Phenol-d5	65		31 - 110	03/08/16 07:20	03/09/16 02:44	1
Terphenyl-d14	105		36 - 134	03/08/16 07:20	03/09/16 02:44	1
2,4,6-Tribromophenol	82		35 - 137	03/08/16 07:20	03/09/16 02:44	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Arsenic</b>	<b>7.7</b>		0.53	0.25	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Barium</b>	<b>32</b>		0.53	0.098	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Beryllium</b>	<b>0.56</b>		0.21	0.046	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.031	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Chromium</b>	<b>14</b>		0.53	0.092	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Cobalt</b>	<b>10</b>		0.27	0.060	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Copper</b>	<b>25</b>		0.53	0.12	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Iron</b>	<b>18000</b>		11	4.1	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Lead</b>	<b>14</b>		0.27	0.13	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Magnesium</b>	<b>25000</b>		5.3	2.2	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Calcium</b>	<b>53000</b>	<b>B</b>	110	34	mg/Kg	☼	03/08/16 15:34	03/09/16 18:25	10
<b>Manganese</b>	<b>250</b>		0.53	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Nickel</b>	<b>29</b>		0.53	0.14	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.53	0.26	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Thallium</b>	<b>0.31</b>	<b>J</b>	0.53	0.26	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Vanadium</b>	<b>16</b>		0.27	0.078	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Zinc</b>	<b>57</b>		1.1	0.34	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Potassium</b>	<b>2200</b>		27	4.4	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1
<b>Sodium</b>	<b>440</b>		53	7.1	mg/Kg	☼	03/08/16 15:34	03/09/16 16:39	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 20:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 20:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 20:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10)**

**Lab Sample ID: 500-108325-25**

**Date Collected: 03/03/16 15:35**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 86.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>470</b>		5.0	0.50	mg/L		03/09/16 15:27	03/10/16 20:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 20:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 20:08	1
<b>Magnesium</b>	<b>66</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 20:08	1
<b>Manganese</b>	<b>0.91</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
<b>Potassium</b>	<b>3.4</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 20:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 20:08	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
Vanadium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:08	1
<b>Zinc</b>	<b>0.20</b>	<b>J</b>	0.50	0.020	mg/L		03/09/16 15:27	03/10/16 20:08	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.055</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 09:31	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/09/16 15:27	03/09/16 22:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/09/16 15:27	03/09/16 22:58	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/09/16 17:30	03/11/16 11:36	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.017	0.0088	mg/Kg	☼	03/04/16 17:00	03/07/16 11:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.15	mg/Kg	☼	03/10/16 16:40	03/11/16 17:33	1
<b>pH</b>	<b>8.16</b>		0.200	0.200	SU			03/04/16 22:37	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10) Dup**

**Lab Sample ID: 500-108325-26**

Date Collected: 03/03/16 15:40

Matrix: Solid

Date Received: 03/04/16 08:45

Percent Solids: 84.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,1,2,2-Tetrachloroethane	<0.0044 *		0.0044	0.00069	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Vinyl acetate	<0.0044 *		0.0044	0.0012	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/04/16 09:15	03/06/16 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/04/16 09:15	03/06/16 19:41	1
Dibromofluoromethane	108		75 - 120	03/04/16 09:15	03/06/16 19:41	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/04/16 09:15	03/06/16 19:41	1
Toluene-d8 (Surr)	109		75 - 122	03/04/16 09:15	03/06/16 19:41	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10) Dup**

**Lab Sample ID: 500-108325-26**

**Date Collected: 03/03/16 15:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
<b>Chrysene</b>	<b>0.030</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10) Dup**

**Lab Sample ID: 500-108325-26**

**Date Collected: 03/03/16 15:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
<b>Phenanthrene</b>	<b>0.032</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
<b>Pyrene</b>	<b>0.021</b>	<b>J</b>	0.038	0.0077	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/08/16 07:20	03/09/16 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	03/08/16 07:20	03/09/16 03:11	1
2-Fluorophenol	67		25 - 110	03/08/16 07:20	03/09/16 03:11	1
Nitrobenzene-d5	69		25 - 115	03/08/16 07:20	03/09/16 03:11	1
Phenol-d5	65		31 - 110	03/08/16 07:20	03/09/16 03:11	1
Terphenyl-d14	116		36 - 134	03/08/16 07:20	03/09/16 03:11	1
2,4,6-Tribromophenol	99		35 - 137	03/08/16 07:20	03/09/16 03:11	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Arsenic</b>	<b>11</b>		0.54	0.25	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Barium</b>	<b>37</b>		0.54	0.098	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Beryllium</b>	<b>0.58</b>		0.22	0.047	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Cadmium</b>	<b>0.070</b>	<b>J</b>	0.11	0.031	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Chromium</b>	<b>15</b>		0.54	0.093	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Cobalt</b>	<b>12</b>		0.27	0.061	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Copper</b>	<b>26</b>		0.54	0.12	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Iron</b>	<b>24000</b>		11	4.1	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Lead</b>	<b>16</b>		0.27	0.13	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Magnesium</b>	<b>21000</b>		5.4	2.2	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Calcium</b>	<b>47000</b>	<b>B</b>	110	35	mg/Kg	☼	03/08/16 15:34	03/09/16 18:29	10
<b>Manganese</b>	<b>220</b>		0.54	0.11	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Nickel</b>	<b>35</b>		0.54	0.15	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Vanadium</b>	<b>16</b>		0.27	0.079	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Zinc</b>	<b>66</b>		1.1	0.34	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Potassium</b>	<b>2000</b>		27	4.4	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1
<b>Sodium</b>	<b>490</b>		54	7.1	mg/Kg	☼	03/08/16 15:34	03/09/16 16:44	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		03/09/16 15:27	03/10/16 20:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 15:27	03/10/16 20:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/09/16 15:27	03/10/16 20:15	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

**Client Sample ID: 2633-14-B06 (5-10) Dup**

**Lab Sample ID: 500-108325-26**

**Date Collected: 03/03/16 15:40**

**Matrix: Solid**

**Date Received: 03/04/16 08:45**

**Percent Solids: 84.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>440</b>		5.0	0.50	mg/L		03/09/16 15:27	03/10/16 20:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
Copper	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
Iron	<0.40		0.40	0.20	mg/L		03/09/16 15:27	03/10/16 20:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/09/16 15:27	03/10/16 20:15	1
<b>Magnesium</b>	<b>49</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 20:15	1
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
<b>Potassium</b>	<b>2.7</b>		2.5	0.50	mg/L		03/09/16 15:27	03/10/16 20:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 15:27	03/10/16 20:15	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
Vanadium	<0.025		0.025	0.010	mg/L		03/09/16 15:27	03/10/16 20:15	1
<b>Zinc</b>	<b>0.23 J</b>		0.50	0.020	mg/L		03/09/16 15:27	03/10/16 20:15	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		03/10/16 08:54	03/11/16 09:37	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/09/16 15:27	03/09/16 22:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/09/16 15:27	03/09/16 22:59	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/09/16 17:30	03/11/16 11:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.041</b>		0.017	0.0089	mg/Kg	☼	03/04/16 17:00	03/07/16 11:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/10/16 16:40	03/11/16 17:33	1
<b>pH</b>	<b>7.98</b>		0.200	0.200	SU			03/04/16 22:51	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108325-3

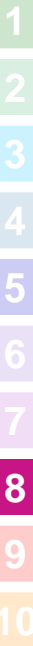
## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terraron  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-357-9989  
 E-Mail: Matt.Weiss@terraron.com

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108325  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter										Preservative Key		
Project Name		Lab Project #		Parameter		Parameter										1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Location/State		Lab Project #																
Sampler		Lab PM																
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 23 Inorganics	TCUP 23 Inorganics	pH	SPLP 23 Inorganics					Comments	
			Date	Time														
22		2633-14-B05 (0-5)	3/31/16	2:55	6	S	✓	✓	✓	✓	✓							HOLD SPLP
23		2633-14-B05 (5-10)	3/31/16	3:00	6	S	✓	✓	✓	✓	✓							Analysis
24		2633-14-B06 (0-5)	3/31/16	3:30	6	S	✓	✓	✓	✓	✓							
25		2633-14-B06 (5-10)	3/31/16	3:35	6	S	✓	✓	✓	✓	✓							
26		2633-14-B06 (5-10) Dup	3/31/16	3:40	6	S	✓	✓	✓	✓	✓							

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>David Kelly</u>	Company <u>Terraron</u>	Date <u>3/4/16</u>	Time <u>900</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>0800</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>0845</u>	Received By <u>Shirley Smith</u>	Company <u>TA-CHT</u>	Date <u>3/4/16</u>	Time <u>0845</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: Meet IL TACO Requirements & please HOLD SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108325-3

**Login Number: 108325**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.0,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

US 34 (near US 34 and LaGrange Rd intersection) from STA 103+45 to 105+30 (ISGS Site 2633-16)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 B03, B04 were sampled adjacent to ISGS Site No 2633-16. See Exhibits 3, 3E, and Table 26 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J108383-1. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Michael Roche (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

Company Name: Terracon Consultants, Inc  
 Street Address: 135 Ambassador Drive  
 City: Naperville State: IL Zip Code: 60540  
 Phone: 630-717-4263

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:







Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-16-B03 (0-5)	2633-16-B03 (5-10)	2633-16-B03 (10-15)	2633-16-B04 (0-5)	2633-16-B04 (5-10)	2633-16-B04 (5-10) Dup	2633-16-B04 (10-15)	2633-16-B04 (15-20)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)	(10-15)	(0-5)	(5-10)	(5-10)	(10-15)	(15-20)
				mg/kg	Date Collected	03/04/2016	03/04/2016	03/04/2016	03/04/2016	03/04/2016	03/04/2016	03/04/2016	03/04/2016
		pH 6.25-9.0											
Silver,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Sodium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Thallium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Vanadium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Zinc,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Cyanide,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
<b>Inorganic Analytical Parameters (TCLP)</b>													
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.2	0.22	0.33	0.35	0.26	0.24	0.22	0.1
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0035	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0076	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		320	510	480	330	340	320	1100	320
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	0.022	<0.025	<0.025	<0.025	0.034	0.047
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.032	0.03
Cyanide,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.27	<0.40
Magnesium,TCLP	mg/L	---	---	---		67	29	18	130	110	100	270	25
Manganese,TCLP	mg/L	---	---	---		0.52	0.52	1.7	0.17	0.23	0.2	2.8	1
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	0.054	<0.025	<0.025	<0.025	0.046	0.077
Potassium,TCLP	mg/L	---	---	---		0.57	1.5	3.7	4.8	6	6.3	1.9	2.1
Sodium,TCLP	mg/L	---	---	---		----	----	----	----	----	----	----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	<0.50	0.042	<0.50	<0.50	<0.50	0.035	0.055

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108383-1

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/18/2016 4:54:16 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Job ID: 500-108383-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108383-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/4/2016 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0° C, 2.8° C and 3.6° C.

#### GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCSD associated with 500-325907: Vinyl Acetate. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The continuing calibration verification (CCV) at line 51 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS were within the method control limits. The associated sample 2633-16-B02 (5-10) Dup (500-108383-6), 2633-16-B02 (10-15) (500-108383-7), 2633-16-B03 (0-5) (500-108383-8), 2633-16-B03 (5-10) (500-108383-9), 2633-16-B03 (10-15) (500-108383-10), 2633-16-B04 (0-5) (500-108383-11), 2633-16-B04 (5-10) (500-108383-12), 2633-16-B04 (5-10) Dup (500-108383-13), 2633-16-B04 (10-15) (500-108383-14) and 2633-16-B04 (15-20) (500-108383-15) were bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method(s) 6010B: The laboratory blank (LB) for preparation batch 500-327096, 500-327097 and 500-327187 contained Zinc above the reporting limit (RL). The samples 2633-16-B01 (0-5) (500-108383-1), 2633-16-B01 (5-10) (500-108383-2), 2633-16-B01 (10-15) (500-108383-3), 2633-16-B02 (0-5) (500-108383-4), 2633-16-B02 (5-10) (500-108383-5), 2633-16-B02 (5-10) Dup (500-108383-6), 2633-16-B02 (10-15) (500-108383-7), 2633-16-B03 (0-5) (500-108383-8), 2633-16-B03 (5-10) (500-108383-9), 2633-16-B03 (10-15) (500-108383-10), 2633-16-B04 (0-5) (500-108383-11), 2633-16-B04 (5-10) (500-108383-12), 2633-16-B04 (5-10) Dup (500-108383-13), 2633-16-B04 (10-15) (500-108383-14), 2633-16-B04 (15-20) (500-108383-15) and (500-108383-F-20-J) associated with this LB did not contain the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 6020A: The mid range continuing calibration verification (CCV), at lines 36,49,61,72 and 78, associated with batch 500-327464 recovered above the upper control limit for Thallium and Antimony. All the low level CCV (CCVL) were within control limits. The samples associated with these CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 500-108383-1 through 20.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (0-5)**

**Lab Sample ID: 500-108383-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11	F1	0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	45	F1	0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66	F1	0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19	F1	0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2800	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	2400		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	330	F2	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J F1	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	72	F1 B	11	3.5	mg/Kg	10	☼	6010B	Total/NA
Potassium	1200	B F1	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	F1	55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	71		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.1		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.023		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	11		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.027	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.047		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	9.30		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-16-B01 (5-10)**

**Lab Sample ID: 500-108383-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.087	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	76	B	11	3.5	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Client Sample ID: 2633-16-B01 (5-10) (Continued)

## Lab Sample ID: 500-108383-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2400	B	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	3200		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	30		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.64		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B01 (10-15)

## Lab Sample ID: 500-108383-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.096	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.021	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.049		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	20		0.48	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.095	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	9.5	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000		95	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	280		0.48	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	63	B	9.5	3.0	mg/Kg	10	☼	6010B	Total/NA
Potassium	2200	B	24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.082		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.27		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (0-5)**

**Lab Sample ID: 500-108383-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.7		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.098	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000		120	38	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	71	B	12	3.7	mg/Kg	10	☼	6010B	Total/NA
Potassium	2100	B	29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0044	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1300		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.27	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	220		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.92	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.01		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-16-B02 (5-10)**

**Lab Sample ID: 500-108383-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0096	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.53	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000		110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	270		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	61	B	11	3.4	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Client Sample ID: 2633-16-B02 (5-10) (Continued)

## Lab Sample ID: 500-108383-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2300	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	320		53	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	26		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.42		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B02 (5-10) Dup

## Lab Sample ID: 500-108383-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysenes	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.072	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000		100	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	47	B	1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1300		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	240		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.051		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.37		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B02 (10-15)

## Lab Sample ID: 500-108383-7

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (10-15) (Continued)**

**Lab Sample ID: 500-108383-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.035	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.055		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.2		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000		100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.25	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	67	B	1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200	B	26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	21		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.071		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.75		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-16-B03 (0-5)**

**Lab Sample ID: 500-108383-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Client Sample ID: 2633-16-B03 (0-5) (Continued)

## Lab Sample ID: 500-108383-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	57	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600	B	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	360		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.57	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.47		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B03 (5-10)

## Lab Sample ID: 500-108383-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.095	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	33		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	340		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	62	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	330		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	510		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	29		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.26		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B03 (10-15)

## Lab Sample ID: 500-108383-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.018	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.058		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Client Sample ID: 2633-16-B03 (10-15) (Continued)

## Lab Sample ID: 500-108383-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.057	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	340		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	55	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100	B	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	18		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.054		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.042	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B04 (0-5)

## Lab Sample ID: 500-108383-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.039	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	240		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	59	B	1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100	B	26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	400		52	6.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Client Sample ID: 2633-16-B04 (0-5) (Continued)

## Lab Sample ID: 500-108383-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.8		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.74		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B04 (5-10)

## Lab Sample ID: 500-108383-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.2		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.085	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000		120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300	B	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	340		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.0		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.18		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B04 (5-10) Dup

## Lab Sample ID: 500-108383-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	22		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.086	J	0.099	0.029	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.50	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	50		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Client Sample ID: 2633-16-B04 (5-10) Dup (Continued)

## Lab Sample ID: 500-108383-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	4000	B	5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	4200		9.9	3.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.50	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	44		0.50	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.24	J	0.50	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	97	B	0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	B	25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		50	6.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.3		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B04 (10-15)

## Lab Sample ID: 500-108383-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.025	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.039		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.5		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	27		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.047	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	260		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	59	B	1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900	B	26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	320		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1100		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.032		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Client Sample ID: 2633-16-B04 (10-15) (Continued)

## Lab Sample ID: 500-108383-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.27	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0076		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	270		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.024		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.97		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-16-B04 (15-20)

## Lab Sample ID: 500-108383-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.034	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.025	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.8		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	6.5		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.32		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25		0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.1	B	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000	B	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000		96	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	230		0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.2		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Potassium	910	B	24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.10	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	25		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.077		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.055	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	7.80		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-G01**

**Lab Sample ID: 500-108383-23**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	0.00098	J	0.0037	0.00049	mg/L	1		8270D	Total/NA
Antimony	0.0027	J	0.0030	0.0010	mg/L	1		6020A	Total Recoverable
Arsenic	0.020		0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.33		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Cadmium	0.00050		0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	480		4.0	2.1	mg/L	20		6020A	Total Recoverable
Chromium	0.015		0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.0050		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.019		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	11		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.073		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	160		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	0.92		0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.019		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	12		0.50	0.19	mg/L	1		6020A	Total Recoverable
Selenium	0.0018	J	0.0025	0.00083	mg/L	1		6020A	Total Recoverable
Sodium	900		4.0	1.8	mg/L	20		6020A	Total Recoverable
Vanadium	0.0067		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.044	B	0.020	0.0046	mg/L	1		6020A	Total Recoverable

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-108383-25**

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108383-1	2633-16-B01 (0-5)	Solid	03/04/16 11:15	03/04/16 15:40
500-108383-2	2633-16-B01 (5-10)	Solid	03/04/16 11:20	03/04/16 15:40
500-108383-3	2633-16-B01 (10-15)	Solid	03/04/16 11:25	03/04/16 15:40
500-108383-4	2633-16-B02 (0-5)	Solid	03/04/16 10:25	03/04/16 15:40
500-108383-5	2633-16-B02 (5-10)	Solid	03/04/16 10:30	03/04/16 15:40
500-108383-6	2633-16-B02 (5-10) Dup	Solid	03/04/16 10:35	03/04/16 15:40
500-108383-7	2633-16-B02 (10-15)	Solid	03/04/16 10:40	03/04/16 15:40
500-108383-8	2633-16-B03 (0-5)	Solid	03/04/16 09:40	03/04/16 15:40
500-108383-9	2633-16-B03 (5-10)	Solid	03/04/16 09:45	03/04/16 15:40
500-108383-10	2633-16-B03 (10-15)	Solid	03/04/16 09:50	03/04/16 15:40
500-108383-11	2633-16-B04 (0-5)	Solid	03/04/16 08:45	03/04/16 15:40
500-108383-12	2633-16-B04 (5-10)	Solid	03/04/16 08:50	03/04/16 15:40
500-108383-13	2633-16-B04 (5-10) Dup	Solid	03/04/16 08:55	03/04/16 15:40
500-108383-14	2633-16-B04 (10-15)	Solid	03/04/16 09:00	03/04/16 15:40
500-108383-15	2633-16-B04 (15-20)	Solid	03/04/16 09:05	03/04/16 15:40
500-108383-23	2633-16-G01	Water	03/04/16 14:00	03/04/16 15:40
500-108383-25	Trip Blank	Water	03/04/16 00:00	03/04/16 15:40

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (0-5)**

**Lab Sample ID: 500-108383-1**

**Date Collected: 03/04/16 11:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Vinyl acetate	<0.0047 *		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	03/04/16 16:50	03/07/16 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/04/16 16:50	03/07/16 23:31	1
Dibromofluoromethane	105		75 - 120	03/04/16 16:50	03/07/16 23:31	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/04/16 16:50	03/07/16 23:31	1
Toluene-d8 (Surr)	103		75 - 122	03/04/16 16:50	03/07/16 23:31	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (0-5)**

**Lab Sample ID: 500-108383-1**

**Date Collected: 03/04/16 11:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (0-5)**

**Lab Sample ID: 500-108383-1**

**Date Collected: 03/04/16 11:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.2**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/09/16 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	03/09/16 07:14	03/09/16 22:30	1
2-Fluorophenol	74		25 - 110	03/09/16 07:14	03/09/16 22:30	1
Nitrobenzene-d5	71		25 - 115	03/09/16 07:14	03/09/16 22:30	1
Phenol-d5	66		31 - 110	03/09/16 07:14	03/09/16 22:30	1
Terphenyl-d14	106		36 - 134	03/09/16 07:14	03/09/16 22:30	1
2,4,6-Tribromophenol	108		35 - 137	03/09/16 07:14	03/09/16 22:30	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.23	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Arsenic</b>	<b>11</b>	<b>F1</b>	0.55	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Barium</b>	<b>45</b>	<b>F1</b>	0.55	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Beryllium</b>	<b>0.66</b>	<b>F1</b>	0.22	0.048	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
Cadmium	<0.11	F1	0.11	0.032	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Cobalt</b>	<b>13</b>		0.28	0.062	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Copper</b>	<b>31</b>		0.55	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Lead</b>	<b>19</b>	<b>F1</b>	0.28	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Magnesium</b>	<b>2800</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Calcium</b>	<b>2400</b>		11	3.6	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Manganese</b>	<b>330</b>	<b>F2</b>	0.55	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Nickel</b>	<b>30</b>		0.55	0.15	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Selenium</b>	<b>0.49</b>	<b>J F1</b>	0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
Silver	<0.28	F1	0.28	0.065	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Vanadium</b>	<b>22</b>		0.28	0.081	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Zinc</b>	<b>72</b>	<b>F1 B</b>	11	3.5	mg/Kg	☼	03/09/16 09:13	03/10/16 04:44	10
<b>Potassium</b>	<b>1200</b>	<b>B F1</b>	28	4.5	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1
<b>Sodium</b>	<b>1300</b>	<b>F1</b>	55	7.3	mg/Kg	☼	03/09/16 09:13	03/09/16 22:17	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (0-5)**

**Lab Sample ID: 500-108383-1**

**Date Collected: 03/04/16 11:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	71		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 17:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
Cobalt	0.039		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
Copper	0.014	J	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
Iron	1.1		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:19	1
Lead	0.023		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:19	1
Magnesium	11		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:19	1
Manganese	6.7		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
Nickel	0.030		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
Potassium	3.8		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:19	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:19	1
Zinc	0.027	J B	0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:19	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:06	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:07	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:15	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.020	0.011	mg/Kg	☼	03/09/16 14:00	03/11/16 14:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	03/10/16 16:40	03/11/16 17:21	1
pH	9.30		0.200	0.200	SU			03/08/16 16:41	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (5-10)**

**Lab Sample ID: 500-108383-2**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Bromoform	<0.0042		0.0042	0.00087	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Vinyl acetate	<0.0042 *		0.0042	0.0011	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	03/04/16 16:50	03/07/16 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 16:50	03/07/16 23:56	1
Dibromofluoromethane	107		75 - 120	03/04/16 16:50	03/07/16 23:56	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/04/16 16:50	03/07/16 23:56	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 16:50	03/07/16 23:56	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (5-10)**

**Lab Sample ID: 500-108383-2**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (5-10)**

**Lab Sample ID: 500-108383-2**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.0**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Phenanthrene	<0.040		0.040	0.0055	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/09/16 07:14	03/09/16 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	03/09/16 07:14	03/09/16 22:57	1
2-Fluorophenol	70		25 - 110	03/09/16 07:14	03/09/16 22:57	1
Nitrobenzene-d5	70		25 - 115	03/09/16 07:14	03/09/16 22:57	1
Phenol-d5	46		31 - 110	03/09/16 07:14	03/09/16 22:57	1
Terphenyl-d14	99		36 - 134	03/09/16 07:14	03/09/16 22:57	1
2,4,6-Tribromophenol	87		35 - 137	03/09/16 07:14	03/09/16 22:57	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Arsenic</b>	<b>7.8</b>		0.55	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Barium</b>	<b>43</b>		0.55	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Beryllium</b>	<b>0.75</b>		0.22	0.048	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Cadmium</b>	<b>0.087</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Cobalt</b>	<b>15</b>		0.28	0.062	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Copper</b>	<b>27</b>		0.55	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Calcium</b>	<b>62000</b>		110	36	mg/Kg	☼	03/09/16 09:13	03/10/16 05:04	10
<b>Manganese</b>	<b>330</b>		0.55	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Nickel</b>	<b>38</b>		0.55	0.15	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Vanadium</b>	<b>22</b>		0.28	0.081	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Zinc</b>	<b>76</b>	<b>B</b>	11	3.5	mg/Kg	☼	03/09/16 09:13	03/10/16 05:04	10
<b>Potassium</b>	<b>2400</b>	<b>B</b>	28	4.5	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1
<b>Sodium</b>	<b>3200</b>		55	7.3	mg/Kg	☼	03/09/16 09:13	03/09/16 22:41	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:24	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (5-10)**

**Lab Sample ID: 500-108383-2**

**Date Collected: 03/04/16 11:20**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.0**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>450</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 17:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:24	1
<b>Magnesium</b>	<b>30</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:24	1
<b>Manganese</b>	<b>3.6</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
<b>Potassium</b>	<b>1.7</b>	<b>J</b>	2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:24	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:24	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:24	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:10	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:11	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:11	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:17	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.018	0.0095	mg/Kg	☼	03/09/16 14:00	03/11/16 15:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	03/10/16 16:40	03/11/16 17:23	1
<b>pH</b>	<b>8.64</b>		0.200	0.200	SU			03/08/16 16:43	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (10-15)**

**Lab Sample ID: 500-108383-3**

**Date Collected: 03/04/16 11:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Chloroform	<0.0043		0.0043	0.00085	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Vinyl acetate	<0.0043 *		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 00:21	1
Dibromofluoromethane	108		75 - 120	03/04/16 16:50	03/08/16 00:21	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	03/04/16 16:50	03/08/16 00:21	1
Toluene-d8 (Surr)	106		75 - 122	03/04/16 16:50	03/08/16 00:21	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (10-15)**

**Lab Sample ID: 500-108383-3**

**Date Collected: 03/04/16 11:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.096</b>	<b>J</b>	0.19	0.069	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
<b>Chrysene</b>	<b>0.015</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
<b>2-Methylnaphthalene</b>	<b>0.021</b>	<b>J</b>	0.037	0.0069	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (10-15)**

**Lab Sample ID: 500-108383-3**

**Date Collected: 03/04/16 11:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
<b>Phenanthrene</b>	<b>0.049</b>		0.037	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.037	0.0075	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	03/09/16 07:14	03/10/16 05:13	1
2-Fluorophenol	68		25 - 110	03/09/16 07:14	03/10/16 05:13	1
Nitrobenzene-d5	73		25 - 115	03/09/16 07:14	03/10/16 05:13	1
Phenol-d5	54		31 - 110	03/09/16 07:14	03/10/16 05:13	1
Terphenyl-d14	116		36 - 134	03/09/16 07:14	03/10/16 05:13	1
2,4,6-Tribromophenol	88		35 - 137	03/09/16 07:14	03/10/16 05:13	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Arsenic</b>	<b>5.8</b>		0.48	0.22	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Barium</b>	<b>20</b>		0.48	0.087	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Beryllium</b>	<b>0.60</b>		0.19	0.041	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Cadmium</b>	<b>0.11</b>		0.095	0.028	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.48	0.082	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Cobalt</b>	<b>14</b>		0.24	0.054	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Copper</b>	<b>23</b>		0.48	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	9.5	3.7	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Lead</b>	<b>14</b>		0.24	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	4.8	1.9	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Calcium</b>	<b>66000</b>		95	31	mg/Kg	☼	03/09/16 09:13	03/10/16 05:08	10
<b>Manganese</b>	<b>280</b>		0.48	0.094	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Nickel</b>	<b>34</b>		0.48	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Selenium</b>	<b>0.58</b>		0.48	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Vanadium</b>	<b>18</b>		0.24	0.070	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Zinc</b>	<b>63</b>	<b>B</b>	9.5	3.0	mg/Kg	☼	03/09/16 09:13	03/10/16 05:08	10
<b>Potassium</b>	<b>2200</b>	<b>B</b>	24	3.9	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1
<b>Sodium</b>	<b>1700</b>		48	6.3	mg/Kg	☼	03/09/16 09:13	03/09/16 22:46	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:29	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B01 (10-15)**

**Lab Sample ID: 500-108383-3**

**Date Collected: 03/04/16 11:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>540</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 17:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
<b>Cobalt</b>	<b>0.029</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:29	1
<b>Magnesium</b>	<b>26</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:29	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
<b>Nickel</b>	<b>0.082</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
<b>Potassium</b>	<b>2.9</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:29	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:29	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:29	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.87</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:14	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:23	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:23	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.031</b>		0.018	0.0093	mg/Kg	☼	03/09/16 14:00	03/11/16 15:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	03/10/16 16:40	03/11/16 17:23	1
<b>pH</b>	<b>8.27</b>		0.200	0.200	SU			03/08/16 16:45	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (0-5)**

**Lab Sample ID: 500-108383-4**

**Date Collected: 03/04/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Vinyl acetate	<0.0041 *		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	03/04/16 16:50	03/08/16 00:46	1
Dibromofluoromethane	105		75 - 120	03/04/16 16:50	03/08/16 00:46	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 16:50	03/08/16 00:46	1
Toluene-d8 (Surr)	106		75 - 122	03/04/16 16:50	03/08/16 00:46	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (0-5)**

**Lab Sample ID: 500-108383-4**

**Date Collected: 03/04/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (0-5)**

**Lab Sample ID: 500-108383-4**

**Date Collected: 03/04/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.6**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/09/16 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	03/09/16 07:14	03/09/16 23:23	1
2-Fluorophenol	70		25 - 110	03/09/16 07:14	03/09/16 23:23	1
Nitrobenzene-d5	72		25 - 115	03/09/16 07:14	03/09/16 23:23	1
Phenol-d5	38		31 - 110	03/09/16 07:14	03/09/16 23:23	1
Terphenyl-d14	106		36 - 134	03/09/16 07:14	03/09/16 23:23	1
2,4,6-Tribromophenol	93		35 - 137	03/09/16 07:14	03/09/16 23:23	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Arsenic</b>	<b>9.7</b>		0.59	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Barium</b>	<b>52</b>		0.59	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Beryllium</b>	<b>0.76</b>		0.24	0.051	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Cadmium</b>	<b>0.098</b>	<b>J</b>	0.12	0.034	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.59	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Cobalt</b>	<b>14</b>		0.29	0.066	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Copper</b>	<b>28</b>		0.59	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.5	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Lead</b>	<b>15</b>		0.29	0.15	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	5.9	2.4	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Calcium</b>	<b>67000</b>		120	38	mg/Kg	☼	03/09/16 09:13	03/10/16 05:12	10
<b>Manganese</b>	<b>360</b>		0.59	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Nickel</b>	<b>36</b>		0.59	0.16	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Vanadium</b>	<b>22</b>		0.29	0.086	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Zinc</b>	<b>71</b>	<b>B</b>	12	3.7	mg/Kg	☼	03/09/16 09:13	03/10/16 05:12	10
<b>Potassium</b>	<b>2100</b>	<b>B</b>	29	4.8	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1
<b>Sodium</b>	<b>580</b>		59	7.8	mg/Kg	☼	03/09/16 09:13	03/09/16 22:51	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Cadmium</b>	<b>0.0044</b>	<b>J</b>	0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:35	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (0-5)**

**Lab Sample ID: 500-108383-4**

**Date Collected: 03/04/16 10:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1300</b>		50	5.0	mg/L		03/15/16 16:50	03/17/16 13:46	10
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Cobalt</b>	<b>0.053</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Iron</b>	<b>0.27</b>	<b>J</b>	0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Magnesium</b>	<b>220</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Manganese</b>	<b>7.3</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Nickel</b>	<b>0.043</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
<b>Potassium</b>	<b>0.92</b>	<b>J</b>	2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:35	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:35	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:35	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:18	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:27	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:27	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:30	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.020	0.010	mg/Kg	☼	03/09/16 14:00	03/11/16 15:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/10/16 16:40	03/11/16 17:24	1
<b>pH</b>	<b>9.01</b>		0.200	0.200	SU			03/08/16 16:48	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10)**

**Lab Sample ID: 500-108383-5**

Date Collected: 03/04/16 10:30

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 83.7

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Vinyl acetate	<0.0043 *		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 01:11	1
Dibromofluoromethane	105		75 - 120	03/04/16 16:50	03/08/16 01:11	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/04/16 16:50	03/08/16 01:11	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 16:50	03/08/16 01:11	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10)**

**Lab Sample ID: 500-108383-5**

**Date Collected: 03/04/16 10:30**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
<b>Benzo[b]fluoranthene</b>	<b>0.0096</b>	<b>J</b>	0.039	0.0085	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
<b>Chrysene</b>	<b>0.019</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10)**

**Lab Sample ID: 500-108383-5**

Date Collected: 03/04/16 10:30

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 83.7

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
<b>Phenanthrene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/09/16 07:14	03/09/16 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		25 - 119	03/09/16 07:14	03/09/16 23:50	1
2-Fluorophenol	63		25 - 110	03/09/16 07:14	03/09/16 23:50	1
Nitrobenzene-d5	64		25 - 115	03/09/16 07:14	03/09/16 23:50	1
Phenol-d5	44		31 - 110	03/09/16 07:14	03/09/16 23:50	1
Terphenyl-d14	94		36 - 134	03/09/16 07:14	03/09/16 23:50	1
2,4,6-Tribromophenol	76		35 - 137	03/09/16 07:14	03/09/16 23:50	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Arsenic</b>	<b>6.3</b>		0.53	0.25	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Barium</b>	<b>38</b>		0.53	0.098	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Beryllium</b>	<b>0.65</b>		0.21	0.046	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.53	0.092	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Cobalt</b>	<b>9.8</b>		0.27	0.060	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Copper</b>	<b>23</b>		0.53	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	11	4.1	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Lead</b>	<b>13</b>		0.27	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	5.3	2.2	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Calcium</b>	<b>66000</b>		110	34	mg/Kg	☼	03/09/16 09:13	03/10/16 05:16	10
<b>Manganese</b>	<b>270</b>		0.53	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Nickel</b>	<b>29</b>		0.53	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Vanadium</b>	<b>20</b>		0.27	0.078	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Zinc</b>	<b>61</b>	<b>B</b>	11	3.4	mg/Kg	☼	03/09/16 09:13	03/10/16 05:16	10
<b>Potassium</b>	<b>2300</b>	<b>B</b>	27	4.4	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1
<b>Sodium</b>	<b>320</b>		53	7.1	mg/Kg	☼	03/09/16 09:13	03/09/16 22:56	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10)**

**Lab Sample ID: 500-108383-5**

**Date Collected: 03/04/16 10:30**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>550</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 17:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:40	1
<b>Magnesium</b>	<b>26</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:40	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
<b>Potassium</b>	<b>2.0 J</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:40	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:40	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:40	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.82</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:22	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:32	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:32	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:32	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.020	0.010	mg/Kg	☼	03/09/16 14:00	03/11/16 15:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/11/16 14:15	03/11/16 18:29	1
<b>pH</b>	<b>8.42</b>		0.200	0.200	SU			03/08/16 16:50	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10) Dup**

**Lab Sample ID: 500-108383-6**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/04/16 16:50	03/08/16 01:36	1
Dibromofluoromethane	104		75 - 120	03/04/16 16:50	03/08/16 01:36	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/04/16 16:50	03/08/16 01:36	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 16:50	03/08/16 01:36	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10) Dup**

**Lab Sample ID: 500-108383-6**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10) Dup**

**Lab Sample ID: 500-108383-6**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.8**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
<b>Phenanthrene</b>	<b>0.017</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	03/09/16 07:14	03/10/16 00:17	1
2-Fluorophenol	69		25 - 110	03/09/16 07:14	03/10/16 00:17	1
Nitrobenzene-d5	69		25 - 115	03/09/16 07:14	03/10/16 00:17	1
Phenol-d5	40		31 - 110	03/09/16 07:14	03/10/16 00:17	1
Terphenyl-d14	101		36 - 134	03/09/16 07:14	03/10/16 00:17	1
2,4,6-Tribromophenol	84		35 - 137	03/09/16 07:14	03/10/16 00:17	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Arsenic</b>	<b>6.5</b>		0.52	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Barium</b>	<b>36</b>		0.52	0.096	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Beryllium</b>	<b>0.58</b>		0.21	0.045	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Cadmium</b>	<b>0.072</b>	<b>J</b>	0.10	0.030	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.52	0.090	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Cobalt</b>	<b>17</b>		0.26	0.059	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Copper</b>	<b>20</b>		0.52	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Iron</b>	<b>16000</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Lead</b>	<b>10</b>		0.26	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Magnesium</b>	<b>18000</b>	<b>B</b>	5.2	2.1	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Calcium</b>	<b>57000</b>		100	34	mg/Kg	☼	03/09/16 09:13	03/10/16 05:21	10
<b>Manganese</b>	<b>380</b>		0.52	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Nickel</b>	<b>33</b>		0.52	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Selenium</b>	<b>0.49</b>	<b>J</b>	0.52	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Thallium</b>	<b>0.30</b>	<b>J</b>	0.52	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Vanadium</b>	<b>17</b>		0.26	0.076	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Zinc</b>	<b>47</b>	<b>B</b>	1.0	0.33	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Potassium</b>	<b>2000</b>	<b>B</b>	26	4.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1
<b>Sodium</b>	<b>380</b>		52	6.9	mg/Kg	☼	03/09/16 09:13	03/09/16 23:09	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:45	1
<b>Cadmium</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:45	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (5-10) Dup**

**Lab Sample ID: 500-108383-6**

**Date Collected: 03/04/16 10:35**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>1300</b>		50	5.0	mg/L		03/15/16 16:50	03/17/16 13:50	10
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
<b>Cobalt</b>	<b>0.050</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:45	1
<b>Magnesium</b>	<b>240</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:45	1
<b>Manganese</b>	<b>4.2</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
<b>Nickel</b>	<b>0.051</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
<b>Potassium</b>	<b>1.5 J</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:45	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:45	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:45	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:35	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:36	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:36	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.032</b>		0.020	0.010	mg/Kg	☼	03/09/16 14:00	03/11/16 15:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	03/11/16 14:15	03/11/16 18:31	1
<b>pH</b>	<b>8.37</b>		0.200	0.200	SU			03/08/16 16:52	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (10-15)**

**Lab Sample ID: 500-108383-7**

**Date Collected: 03/04/16 10:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 02:01	1
Dibromofluoromethane	104		75 - 120	03/04/16 16:50	03/08/16 02:01	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/04/16 16:50	03/08/16 02:01	1
Toluene-d8 (Surr)	108		75 - 122	03/04/16 16:50	03/08/16 02:01	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (10-15)**

**Lab Sample ID: 500-108383-7**

**Date Collected: 03/04/16 10:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
<b>Chrysene</b>	<b>0.022</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
<b>2-Methylnaphthalene</b>	<b>0.035</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (10-15)**

**Lab Sample ID: 500-108383-7**

**Date Collected: 03/04/16 10:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.1**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
<b>Phenanthrene</b>	<b>0.055</b>		0.038	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 03:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	74		25 - 119				03/09/16 07:14	03/10/16 03:52	1
2-Fluorophenol	65		25 - 110				03/09/16 07:14	03/10/16 03:52	1
Nitrobenzene-d5	71		25 - 115				03/09/16 07:14	03/10/16 03:52	1
Phenol-d5	61		31 - 110				03/09/16 07:14	03/10/16 03:52	1
Terphenyl-d14	103		36 - 134				03/09/16 07:14	03/10/16 03:52	1
2,4,6-Tribromophenol	64		35 - 137				03/09/16 07:14	03/10/16 03:52	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Arsenic</b>	<b>7.2</b>		0.51	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Barium</b>	<b>36</b>		0.51	0.094	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Beryllium</b>	<b>0.62</b>		0.20	0.044	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Cadmium</b>	<b>0.15</b>		0.10	0.030	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.51	0.088	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Cobalt</b>	<b>14</b>		0.26	0.058	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Copper</b>	<b>25</b>		0.51	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	10	3.9	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Lead</b>	<b>14</b>		0.26	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Magnesium</b>	<b>24000</b>	<b>B</b>	5.1	2.1	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Calcium</b>	<b>76000</b>		100	33	mg/Kg	☼	03/09/16 09:13	03/10/16 05:32	10
<b>Manganese</b>	<b>330</b>		0.51	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Nickel</b>	<b>35</b>		0.51	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Thallium</b>	<b>0.25</b>	<b>J</b>	0.51	0.25	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Vanadium</b>	<b>18</b>		0.26	0.075	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Zinc</b>	<b>67</b>	<b>B</b>	1.0	0.32	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Potassium</b>	<b>2200</b>	<b>B</b>	26	4.2	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1
<b>Sodium</b>	<b>200</b>		51	6.8	mg/Kg	☼	03/09/16 09:13	03/09/16 23:14	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:50	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B02 (10-15)**

**Lab Sample ID: 500-108383-7**

**Date Collected: 03/04/16 10:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>480</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 17:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
<b>Cobalt</b>	<b>0.026</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:50	1
<b>Magnesium</b>	<b>21</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:50	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
<b>Nickel</b>	<b>0.071</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
<b>Potassium</b>	<b>3.8</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:50	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:50	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:50	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.032</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:39	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:40	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:40	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:36	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.018	0.0095	mg/Kg	☼	03/09/16 14:00	03/11/16 15:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.15	mg/Kg	☼	03/11/16 14:15	03/11/16 18:31	1
<b>pH</b>	<b>7.75</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (0-5)**

**Lab Sample ID: 500-108383-8**

**Date Collected: 03/04/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 85.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 02:26	1
Dibromofluoromethane	106		75 - 120	03/04/16 16:50	03/08/16 02:26	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/04/16 16:50	03/08/16 02:26	1
Toluene-d8 (Surr)	103		75 - 122	03/04/16 16:50	03/08/16 02:26	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (0-5)**

**Lab Sample ID: 500-108383-8**

**Date Collected: 03/04/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (0-5)**

**Lab Sample ID: 500-108383-8**

**Date Collected: 03/04/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 85.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119				03/09/16 07:14	03/10/16 00:44	1
2-Fluorophenol	66		25 - 110				03/09/16 07:14	03/10/16 00:44	1
Nitrobenzene-d5	68		25 - 115				03/09/16 07:14	03/10/16 00:44	1
Phenol-d5	39		31 - 110				03/09/16 07:14	03/10/16 00:44	1
Terphenyl-d14	97		36 - 134				03/09/16 07:14	03/10/16 00:44	1
2,4,6-Tribromophenol	77		35 - 137				03/09/16 07:14	03/10/16 00:44	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Arsenic</b>	<b>10</b>		0.56	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Barium</b>	<b>30</b>		0.56	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Beryllium</b>	<b>0.60</b>		0.22	0.049	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.032	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Chromium</b>	<b>14 B</b>		0.56	0.097	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Cobalt</b>	<b>14</b>		0.28	0.063	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Copper</b>	<b>30</b>		0.56	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Iron</b>	<b>19000 B</b>		11	4.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Lead</b>	<b>18</b>		0.28	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Magnesium</b>	<b>26000 B</b>		5.6	2.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Calcium</b>	<b>65000</b>		110	36	mg/Kg	☼	03/09/16 09:13	03/10/16 05:36	10
<b>Manganese</b>	<b>360</b>		0.56	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Nickel</b>	<b>33</b>		0.56	0.15	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Thallium</b>	<b>0.34 J</b>		0.56	0.28	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Vanadium</b>	<b>18</b>		0.28	0.082	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Zinc</b>	<b>57 B</b>		1.1	0.36	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Potassium</b>	<b>1600 B</b>		28	4.6	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1
<b>Sodium</b>	<b>360</b>		56	7.4	mg/Kg	☼	03/09/16 09:13	03/09/16 23:19	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
<b>Barium</b>	<b>0.20 J</b>		0.50	0.050	mg/L		03/15/16 16:50	03/16/16 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 17:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 17:56	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (0-5)**

**Lab Sample ID: 500-108383-8**

**Date Collected: 03/04/16 09:40**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 85.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>320</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 17:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 17:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 17:56	1
<b>Magnesium</b>	<b>67</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:56	1
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
<b>Potassium</b>	<b>0.57 J</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 17:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 17:56	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 17:56	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 17:56	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:43	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:44	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:44	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:38	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.019	0.010	mg/Kg	☼	03/09/16 14:00	03/11/16 15:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	03/11/16 14:15	03/11/16 18:32	1
<b>pH</b>	<b>8.47</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (5-10)**

**Lab Sample ID: 500-108383-9**

**Date Collected: 03/04/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Vinyl acetate	<0.0043 *		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 02:51	1
Dibromofluoromethane	106		75 - 120	03/04/16 16:50	03/08/16 02:51	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/04/16 16:50	03/08/16 02:51	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 16:50	03/08/16 02:51	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (5-10)**

**Lab Sample ID: 500-108383-9**

**Date Collected: 03/04/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.2**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (5-10)**

**Lab Sample ID: 500-108383-9**

**Date Collected: 03/04/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.2**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	03/09/16 07:14	03/10/16 01:11	1
2-Fluorophenol	75		25 - 110	03/09/16 07:14	03/10/16 01:11	1
Nitrobenzene-d5	78		25 - 115	03/09/16 07:14	03/10/16 01:11	1
Phenol-d5	49		31 - 110	03/09/16 07:14	03/10/16 01:11	1
Terphenyl-d14	103		36 - 134	03/09/16 07:14	03/10/16 01:11	1
2,4,6-Tribromophenol	78		35 - 137	03/09/16 07:14	03/10/16 01:11	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Arsenic</b>	<b>8.9</b>		0.58	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Barium</b>	<b>28</b>		0.58	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Beryllium</b>	<b>0.60</b>		0.23	0.050	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Cadmium</b>	<b>0.095</b>	<b>J</b>	0.12	0.034	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Copper</b>	<b>33</b>		0.58	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	12	4.5	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Lead</b>	<b>16</b>		0.29	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Calcium</b>	<b>71000</b>		120	37	mg/Kg	☼	03/09/16 09:13	03/10/16 05:40	10
<b>Manganese</b>	<b>340</b>		0.58	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Nickel</b>	<b>32</b>		0.58	0.16	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Selenium</b>	<b>0.31</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Vanadium</b>	<b>18</b>		0.29	0.085	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Zinc</b>	<b>62</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Potassium</b>	<b>2100</b>	<b>B</b>	29	4.7	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1
<b>Sodium</b>	<b>330</b>		58	7.6	mg/Kg	☼	03/09/16 09:13	03/09/16 23:24	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:08	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (5-10)**

**Lab Sample ID: 500-108383-9**

**Date Collected: 03/04/16 09:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 83.2**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>510</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:08	1
<b>Magnesium</b>	<b>29</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:08	1
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
<b>Potassium</b>	<b>1.5 J</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:08	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:08	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:08	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.53</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:47	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:48	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:48	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:40	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.020	0.011	mg/Kg	☼	03/09/16 14:00	03/11/16 15:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	03/11/16 14:15	03/11/16 18:32	1
<b>pH</b>	<b>8.26</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (10-15)**

**Lab Sample ID: 500-108383-10**

Date Collected: 03/04/16 09:50

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 84.7

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Bromoform	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Dibromochloromethane	<0.0040		0.0040	0.00047	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Vinyl acetate	<0.0040	*	0.0040	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 03:16	1
Dibromofluoromethane	107		75 - 120	03/04/16 16:50	03/08/16 03:16	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	03/04/16 16:50	03/08/16 03:16	1
Toluene-d8 (Surr)	110		75 - 122	03/04/16 16:50	03/08/16 03:16	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (10-15)**

**Lab Sample ID: 500-108383-10**

**Date Collected: 03/04/16 09:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
<b>Fluorene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (10-15)**

**Lab Sample ID: 500-108383-10**

Date Collected: 03/04/16 09:50

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 84.7

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
<b>Phenanthrene</b>	<b>0.058</b>		0.038	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
<b>Pyrene</b>	<b>0.012 J</b>		0.038	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		25 - 119	03/09/16 07:14	03/10/16 04:19	1
2-Fluorophenol	64		25 - 110	03/09/16 07:14	03/10/16 04:19	1
Nitrobenzene-d5	69		25 - 115	03/09/16 07:14	03/10/16 04:19	1
Phenol-d5	56		31 - 110	03/09/16 07:14	03/10/16 04:19	1
Terphenyl-d14	95		36 - 134	03/09/16 07:14	03/10/16 04:19	1
2,4,6-Tribromophenol	64		35 - 137	03/09/16 07:14	03/10/16 04:19	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Arsenic</b>	<b>6.7</b>		0.55	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Barium</b>	<b>33</b>		0.55	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Beryllium</b>	<b>0.62</b>		0.22	0.048	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Cadmium</b>	<b>0.057 J</b>		0.11	0.032	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Chromium</b>	<b>16 B</b>		0.55	0.095	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Cobalt</b>	<b>13</b>		0.28	0.063	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Copper</b>	<b>25</b>		0.55	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Iron</b>	<b>18000 B</b>		11	4.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Magnesium</b>	<b>24000 B</b>		5.5	2.2	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Calcium</b>	<b>75000</b>		110	36	mg/Kg	☼	03/09/16 09:13	03/10/16 05:44	10
<b>Manganese</b>	<b>340</b>		0.55	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Nickel</b>	<b>33</b>		0.55	0.15	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Selenium</b>	<b>0.53 J</b>		0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Vanadium</b>	<b>18</b>		0.28	0.081	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Zinc</b>	<b>55 B</b>		1.1	0.35	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Potassium</b>	<b>2100 B</b>		28	4.5	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1
<b>Sodium</b>	<b>230</b>		55	7.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:29	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
<b>Barium</b>	<b>0.33 J</b>		0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:13	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B03 (10-15)**

**Lab Sample ID: 500-108383-10**

**Date Collected: 03/04/16 09:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 84.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>480</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
<b>Cobalt</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:13	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:13	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
<b>Nickel</b>	<b>0.054</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
<b>Potassium</b>	<b>3.7</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:13	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:13	1
<b>Zinc</b>	<b>0.042</b>	<b>J B</b>	0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:13	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.035</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:51	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 20:52	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 20:52	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:42	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.018	0.0096	mg/Kg	☼	03/09/16 14:00	03/11/16 15:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.19	mg/Kg	☼	03/11/16 14:15	03/11/16 18:32	1
<b>pH</b>	<b>7.95</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (0-5)**

**Lab Sample ID: 500-108383-11**

**Date Collected: 03/04/16 08:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Vinyl acetate	<0.0043 *		0.0043	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 16:50	03/08/16 03:41	1
Dibromofluoromethane	110		75 - 120	03/04/16 16:50	03/08/16 03:41	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	03/04/16 16:50	03/08/16 03:41	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 16:50	03/08/16 03:41	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Anthracene	<0.040		0.040	0.0066	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (0-5)**

**Lab Sample ID: 500-108383-11**

**Date Collected: 03/04/16 08:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (0-5)**

**Lab Sample ID: 500-108383-11**

**Date Collected: 03/04/16 08:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.1**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Phenanthrene	<0.040		0.040	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	03/09/16 07:14	03/10/16 01:38	1
2-Fluorophenol	74		25 - 110	03/09/16 07:14	03/10/16 01:38	1
Nitrobenzene-d5	75		25 - 115	03/09/16 07:14	03/10/16 01:38	1
Phenol-d5	53		31 - 110	03/09/16 07:14	03/10/16 01:38	1
Terphenyl-d14	108		36 - 134	03/09/16 07:14	03/10/16 01:38	1
2,4,6-Tribromophenol	90		35 - 137	03/09/16 07:14	03/10/16 01:38	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Arsenic</b>	<b>7.2</b>		0.52	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Barium</b>	<b>42</b>		0.52	0.095	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Beryllium</b>	<b>0.74</b>		0.21	0.045	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Cadmium</b>	<b>0.039</b>	<b>J</b>	0.10	0.030	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.52	0.089	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Cobalt</b>	<b>11</b>		0.26	0.058	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Copper</b>	<b>22</b>		0.52	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	10	4.0	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Lead</b>	<b>12</b>		0.26	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.2	2.1	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Calcium</b>	<b>30000</b>		10	3.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Manganese</b>	<b>240</b>		0.52	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Nickel</b>	<b>33</b>		0.52	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Vanadium</b>	<b>21</b>		0.26	0.075	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Zinc</b>	<b>59</b>	<b>B</b>	1.0	0.33	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Potassium</b>	<b>2100</b>	<b>B</b>	26	4.2	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1
<b>Sodium</b>	<b>400</b>		52	6.8	mg/Kg	☼	03/09/16 09:13	03/09/16 23:34	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (0-5)**

**Lab Sample ID: 500-108383-11**

**Date Collected: 03/04/16 08:45**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>330</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:25	1
<b>Magnesium</b>	<b>130</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:25	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
<b>Potassium</b>	<b>4.8</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:25	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:25	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:25	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 14:55	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:00	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:00	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:44	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.020	0.011	mg/Kg	☼	03/09/16 14:00	03/11/16 15:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/11/16 14:15	03/11/16 18:33	1
<b>pH</b>	<b>8.74</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (5-10)**

**Lab Sample ID: 500-108383-12**

**Date Collected: 03/04/16 08:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.7**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Vinyl acetate	<0.0047 *		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1
Xylenes, Total	<0.0093		0.0093	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 04:06	1
Dibromofluoromethane	106		75 - 120	03/04/16 16:50	03/08/16 04:06	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/04/16 16:50	03/08/16 04:06	1
Toluene-d8 (Surr)	106		75 - 122	03/04/16 16:50	03/08/16 04:06	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (5-10)**

**Lab Sample ID: 500-108383-12**

**Date Collected: 03/04/16 08:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

Client Sample ID: 2633-16-B04 (5-10)

Lab Sample ID: 500-108383-12

Date Collected: 03/04/16 08:50

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 80.7

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	03/09/16 07:14	03/10/16 02:05	1
2-Fluorophenol	78		25 - 110	03/09/16 07:14	03/10/16 02:05	1
Nitrobenzene-d5	79		25 - 115	03/09/16 07:14	03/10/16 02:05	1
Phenol-d5	73		31 - 110	03/09/16 07:14	03/10/16 02:05	1
Terphenyl-d14	104		36 - 134	03/09/16 07:14	03/10/16 02:05	1
2,4,6-Tribromophenol	85		35 - 137	03/09/16 07:14	03/10/16 02:05	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Arsenic</b>	<b>9.2</b>		0.58	0.27	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Barium</b>	<b>39</b>		0.58	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Beryllium</b>	<b>0.72</b>		0.23	0.050	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Cadmium</b>	<b>0.085</b>	<b>J</b>	0.12	0.034	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Cobalt</b>	<b>16</b>		0.29	0.066	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Copper</b>	<b>27</b>		0.58	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	4.5	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Lead</b>	<b>15</b>		0.29	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Calcium</b>	<b>46000</b>		120	37	mg/Kg	☼	03/09/16 09:13	03/10/16 05:53	10
<b>Manganese</b>	<b>310</b>		0.58	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Nickel</b>	<b>37</b>		0.58	0.16	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Vanadium</b>	<b>22</b>		0.29	0.085	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	1.2	0.37	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Potassium</b>	<b>2300</b>	<b>B</b>	29	4.7	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1
<b>Sodium</b>	<b>450</b>		58	7.7	mg/Kg	☼	03/09/16 09:13	03/09/16 23:39	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:30	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (5-10)**

**Lab Sample ID: 500-108383-12**

**Date Collected: 03/04/16 08:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>340</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:30	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:30	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
<b>Potassium</b>	<b>6.0</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:30	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:30	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:30	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 15:00	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:16	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:16	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.018	0.0097	mg/Kg	☼	03/09/16 14:00	03/11/16 15:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/11/16 14:15	03/11/16 18:33	1
<b>pH</b>	<b>8.18</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (5-10) Dup**

**Lab Sample ID: 500-108383-13**

Date Collected: 03/04/16 08:55

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 81.9

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Vinyl acetate	<0.0044 *		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	03/04/16 16:50	03/08/16 04:32	1
Dibromofluoromethane	105		75 - 120	03/04/16 16:50	03/08/16 04:32	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 16:50	03/08/16 04:32	1
Toluene-d8 (Surr)	106		75 - 122	03/04/16 16:50	03/08/16 04:32	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (5-10) Dup**

**Lab Sample ID: 500-108383-13**

**Date Collected: 03/04/16 08:55**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 81.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (5-10) Dup**

**Lab Sample ID: 500-108383-13**

**Date Collected: 03/04/16 08:55**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 81.9**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119				03/09/16 07:14	03/10/16 02:32	1
2-Fluorophenol	74		25 - 110				03/09/16 07:14	03/10/16 02:32	1
Nitrobenzene-d5	77		25 - 115				03/09/16 07:14	03/10/16 02:32	1
Phenol-d5	43		31 - 110				03/09/16 07:14	03/10/16 02:32	1
Terphenyl-d14	101		36 - 134				03/09/16 07:14	03/10/16 02:32	1
2,4,6-Tribromophenol	43		35 - 137				03/09/16 07:14	03/10/16 02:32	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Arsenic	13		0.50	0.23	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Barium	22		0.50	0.091	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Beryllium	0.68		0.20	0.043	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Cadmium	0.086	J	0.099	0.029	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Chromium	15	B	0.50	0.085	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Cobalt	15		0.25	0.056	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Copper	50		0.50	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Iron	24000	B	9.9	3.8	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Lead	25		0.25	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Magnesium	4000	B	5.0	2.0	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Calcium	4200		9.9	3.2	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Manganese	260		0.50	0.098	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Nickel	44		0.50	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Selenium	0.35	J	0.50	0.25	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Thallium	0.24	J	0.50	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Vanadium	16		0.25	0.072	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Zinc	97	B	0.99	0.31	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Potassium	1400	B	25	4.1	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1
Sodium	420		50	6.6	mg/Kg	☼	03/09/16 09:13	03/09/16 23:44	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
Barium	0.24	J	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:35	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (5-10) Dup**

**Lab Sample ID: 500-108383-13**

**Date Collected: 03/04/16 08:55**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 81.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>320</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:35	1
<b>Magnesium</b>	<b>100</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:35	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
<b>Potassium</b>	<b>6.3</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:35	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:35	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:35	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 15:05	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:21	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:21	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:48	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.019	0.0098	mg/Kg	☼	03/09/16 14:00	03/11/16 15:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	03/11/16 14:15	03/11/16 18:34	1
<b>pH</b>	<b>8.13</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (10-15)**

**Lab Sample ID: 500-108383-14**

**Date Collected: 03/04/16 09:00**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 85.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Chlorobenzene	<0.0040		0.0040	0.00093	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00093	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	✱	03/04/16 16:50	03/08/16 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	03/04/16 16:50	03/08/16 04:57	1
Dibromofluoromethane	105		75 - 120	03/04/16 16:50	03/08/16 04:57	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 16:50	03/08/16 04:57	1
Toluene-d8 (Surr)	107		75 - 122	03/04/16 16:50	03/08/16 04:57	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	✱	03/09/16 07:14	03/10/16 05:40	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	✱	03/09/16 07:14	03/10/16 05:40	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✱	03/09/16 07:14	03/10/16 05:40	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	✱	03/09/16 07:14	03/10/16 05:40	1

TestAmerica Chicago

## Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

Client Sample ID: 2633-16-B04 (10-15)

Lab Sample ID: 500-108383-14

Date Collected: 03/04/16 09:00

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 85.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
<b>Chrysene</b>	<b>0.025</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
<b>Fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
<b>2-Methylnaphthalene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (10-15)**

**Lab Sample ID: 500-108383-14**

**Date Collected: 03/04/16 09:00**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 85.1**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
<b>Phenanthrene</b>	<b>0.039</b>		0.038	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
<b>Pyrene</b>	<b>0.023 J</b>		0.038	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	03/09/16 07:14	03/10/16 05:40	1
2-Fluorophenol	69		25 - 110	03/09/16 07:14	03/10/16 05:40	1
Nitrobenzene-d5	75		25 - 115	03/09/16 07:14	03/10/16 05:40	1
Phenol-d5	66		31 - 110	03/09/16 07:14	03/10/16 05:40	1
Terphenyl-d14	114		36 - 134	03/09/16 07:14	03/10/16 05:40	1
2,4,6-Tribromophenol	75		35 - 137	03/09/16 07:14	03/10/16 05:40	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Arsenic</b>	<b>7.5</b>		0.53	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Barium</b>	<b>27</b>		0.53	0.097	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Beryllium</b>	<b>0.67</b>		0.21	0.046	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Cadmium</b>	<b>0.047 J</b>		0.11	0.031	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Chromium</b>	<b>16 B</b>		0.53	0.091	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Cobalt</b>	<b>9.9</b>		0.26	0.060	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Copper</b>	<b>22</b>		0.53	0.11	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Iron</b>	<b>18000 B</b>		11	4.1	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Lead</b>	<b>14</b>		0.26	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Magnesium</b>	<b>25000 B</b>		5.3	2.1	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Calcium</b>	<b>80000</b>		110	34	mg/Kg	☼	03/09/16 09:13	03/10/16 06:01	10
<b>Manganese</b>	<b>260</b>		0.53	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Nickel</b>	<b>33</b>		0.53	0.14	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Selenium</b>	<b>0.32 J</b>		0.53	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Vanadium</b>	<b>18</b>		0.26	0.077	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Zinc</b>	<b>59 B</b>		1.1	0.33	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Potassium</b>	<b>1900 B</b>		26	4.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1
<b>Sodium</b>	<b>320</b>		53	7.0	mg/Kg	☼	03/09/16 09:13	03/09/16 23:49	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
<b>Barium</b>	<b>0.22 J</b>		0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:40	1
<b>Cadmium</b>	<b>0.0035 J</b>		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:40	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (10-15)**

**Lab Sample ID: 500-108383-14**

**Date Collected: 03/04/16 09:00**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 85.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1100		50	5.0	mg/L		03/15/16 16:50	03/17/16 13:54	10
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
Cobalt	0.034		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
Copper	0.032		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
Iron	0.27	J	0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:40	1
Lead	0.0076		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:40	1
Magnesium	270		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:40	1
Manganese	2.8		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
Nickel	0.046		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
Potassium	1.9	J	2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:40	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:40	1
Zinc	0.035	J B	0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:40	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.024		0.0075	0.0075	mg/L		03/15/16 14:58	03/17/16 15:09	1
Manganese	0.16		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 15:09	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:25	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:25	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:56	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0095	mg/Kg	☼	03/09/16 14:00	03/11/16 15:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.15	mg/Kg	☼	03/11/16 14:15	03/11/16 18:34	1
pH	7.97		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

Client Sample ID: 2633-16-B04 (15-20)

Lab Sample ID: 500-108383-15

Date Collected: 03/04/16 09:05

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 82.8

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Vinyl acetate	<0.0041 *		0.0041	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122	03/04/16 16:50	03/08/16 05:22	1
Dibromofluoromethane	106		75 - 120	03/04/16 16:50	03/08/16 05:22	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	03/04/16 16:50	03/08/16 05:22	1
Toluene-d8 (Surr)	112		75 - 122	03/04/16 16:50	03/08/16 05:22	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

Client Sample ID: 2633-16-B04 (15-20)

Lab Sample ID: 500-108383-15

Date Collected: 03/04/16 09:05

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 82.8

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
<b>Chrysene</b>	<b>0.034</b>	<b>J</b>	0.038	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
<b>Fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (15-20)**

**Lab Sample ID: 500-108383-15**

**Date Collected: 03/04/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.8**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
<b>Phenanthrene</b>	<b>0.031</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
<b>Pyrene</b>	<b>0.025</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2-Fluorobiphenyl</i>	80		25 - 119				03/09/16 07:14	03/10/16 06:07	1
<i>2-Fluorophenol</i>	75		25 - 110				03/09/16 07:14	03/10/16 06:07	1
<i>Nitrobenzene-d5</i>	77		25 - 115				03/09/16 07:14	03/10/16 06:07	1
<i>Phenol-d5</i>	72		31 - 110				03/09/16 07:14	03/10/16 06:07	1
<i>Terphenyl-d14</i>	126		36 - 134				03/09/16 07:14	03/10/16 06:07	1
<i>2,4,6-Tribromophenol</i>	86		35 - 137				03/09/16 07:14	03/10/16 06:07	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Arsenic</b>	<b>7.8</b>		0.48	0.22	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Barium</b>	<b>6.5</b>		0.48	0.088	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Beryllium</b>	<b>0.32</b>		0.19	0.042	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Cadmium</b>	<b>0.25</b>		0.096	0.028	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Chromium</b>	<b>7.1</b>	<b>B</b>	0.48	0.083	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Cobalt</b>	<b>7.4</b>		0.24	0.054	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Copper</b>	<b>22</b>		0.48	0.10	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Iron</b>	<b>11000</b>	<b>B</b>	9.6	3.7	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Lead</b>	<b>12</b>		0.24	0.12	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	4.8	1.9	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Calcium</b>	<b>63000</b>		96	31	mg/Kg	☼	03/09/16 09:13	03/10/16 06:05	10
<b>Manganese</b>	<b>230</b>		0.48	0.095	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Nickel</b>	<b>19</b>		0.48	0.13	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.48	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Vanadium</b>	<b>9.2</b>		0.24	0.070	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Zinc</b>	<b>64</b>	<b>B</b>	0.96	0.30	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Potassium</b>	<b>910</b>	<b>B</b>	24	3.9	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1
<b>Sodium</b>	<b>260</b>		48	6.3	mg/Kg	☼	03/09/16 09:13	03/09/16 23:54	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-B04 (15-20)**

**Lab Sample ID: 500-108383-15**

**Date Collected: 03/04/16 09:05**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.8**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
Cobalt	0.047		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
Copper	0.030		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:46	1
Magnesium	25		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:46	1
Manganese	1.0		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
Nickel	0.077		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
Potassium	2.1	J	2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:46	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:46	1
Zinc	0.055	J B	0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:46	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.032		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 15:13	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:29	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:29	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:58	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0093	mg/Kg	☼	03/09/16 14:00	03/11/16 15:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/11/16 14:15	03/11/16 18:35	1
pH	7.80		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-G01**

**Lab Sample ID: 500-108383-23**

**Date Collected: 03/04/16 14:00**

**Matrix: Water**

**Date Received: 03/04/16 15:40**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			03/11/16 15:22	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/11/16 15:22	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/11/16 15:22	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/11/16 15:22	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/11/16 15:22	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/11/16 15:22	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/11/16 15:22	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:22	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			03/11/16 15:22	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			03/11/16 15:22	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/11/16 15:22	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/11/16 15:22	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/11/16 15:22	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/11/16 15:22	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/11/16 15:22	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:22	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:22	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/11/16 15:22	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/11/16 15:22	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/11/16 15:22	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/11/16 15:22	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/11/16 15:22	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/11/16 15:22	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/11/16 15:22	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:22	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:22	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/11/16 15:22	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/11/16 15:22	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/11/16 15:22	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/11/16 15:22	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/11/16 15:22	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/11/16 15:22	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/11/16 15:22	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/11/16 15:22	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/11/16 15:22	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/11/16 15:22	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/11/16 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 120		03/11/16 15:22	1
Dibromofluoromethane	87		75 - 120		03/11/16 15:22	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 125		03/11/16 15:22	1
Toluene-d8 (Surr)	93		75 - 120		03/11/16 15:22	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00073		0.00073	0.00023	mg/L		03/06/16 18:18	03/11/16 18:34	1
Acenaphthylene	<0.00073		0.00073	0.00020	mg/L		03/06/16 18:18	03/11/16 18:34	1
Anthracene	<0.00073		0.00073	0.00024	mg/L		03/06/16 18:18	03/11/16 18:34	1
Benzo[a]anthracene	<0.00012		0.00012	0.000041	mg/L		03/06/16 18:18	03/11/16 18:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-G01**

**Lab Sample ID: 500-108383-23**

**Date Collected: 03/04/16 14:00**

**Matrix: Water**

**Date Received: 03/04/16 15:40**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.00015		0.00015	0.000072	mg/L		03/06/16 18:18	03/11/16 18:34	1
Benzo[b]fluoranthene	<0.00015		0.00015	0.000059	mg/L		03/06/16 18:18	03/11/16 18:34	1
Benzo[g,h,i]perylene	<0.00073		0.00073	0.00027	mg/L		03/06/16 18:18	03/11/16 18:34	1
Benzo[k]fluoranthene	<0.00015		0.00015	0.000047	mg/L		03/06/16 18:18	03/11/16 18:34	1
Bis(2-chloroethoxy)methane	<0.0015		0.0015	0.00021	mg/L		03/06/16 18:18	03/11/16 18:34	1
Bis(2-chloroethyl)ether	<0.0015		0.0015	0.00021	mg/L		03/06/16 18:18	03/11/16 18:34	1
Bis(2-ethylhexyl) phthalate	<0.0073		0.0073	0.0013	mg/L		03/06/16 18:18	03/11/16 18:34	1
4-Bromophenyl phenyl ether	<0.0037		0.0037	0.00039	mg/L		03/06/16 18:18	03/11/16 18:34	1
Butyl benzyl phthalate	<0.0015		0.0015	0.00035	mg/L		03/06/16 18:18	03/11/16 18:34	1
Carbazole	<0.0037		0.0037	0.00026	mg/L		03/06/16 18:18	03/11/16 18:34	1
4-Chloroaniline	<0.0073		0.0073	0.0015	mg/L		03/06/16 18:18	03/11/16 18:34	1
4-Chloro-3-methylphenol	<0.0073		0.0073	0.0017	mg/L		03/06/16 18:18	03/11/16 18:34	1
2-Chloronaphthalene	<0.0015		0.0015	0.00017	mg/L		03/06/16 18:18	03/11/16 18:34	1
2-Chlorophenol	<0.0037		0.0037	0.00041	mg/L		03/06/16 18:18	03/11/16 18:34	1
4-Chlorophenyl phenyl ether	<0.0037		0.0037	0.00046	mg/L		03/06/16 18:18	03/11/16 18:34	1
Chrysene	<0.00037		0.00037	0.000050	mg/L		03/06/16 18:18	03/11/16 18:34	1
Dibenz(a,h)anthracene	<0.00022		0.00022	0.000037	mg/L		03/06/16 18:18	03/11/16 18:34	1
Dibenzofuran	<0.0015		0.0015	0.00019	mg/L		03/06/16 18:18	03/11/16 18:34	1
1,2-Dichlorobenzene	<0.0015		0.0015	0.00018	mg/L		03/06/16 18:18	03/11/16 18:34	1
1,3-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		03/06/16 18:18	03/11/16 18:34	1
1,4-Dichlorobenzene	<0.0015		0.0015	0.00015	mg/L		03/06/16 18:18	03/11/16 18:34	1
3,3'-Dichlorobenzidine	<0.0037		0.0037	0.0013	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,4-Dichlorophenol	<0.0073		0.0073	0.0019	mg/L		03/06/16 18:18	03/11/16 18:34	1
Diethyl phthalate	<0.0015		0.0015	0.00026	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,4-Dimethylphenol	<0.0073		0.0073	0.0013	mg/L		03/06/16 18:18	03/11/16 18:34	1
Dimethyl phthalate	<0.0015		0.0015	0.00023	mg/L		03/06/16 18:18	03/11/16 18:34	1
Di-n-butyl phthalate	<0.0037		0.0037	0.00053	mg/L		03/06/16 18:18	03/11/16 18:34	1
4,6-Dinitro-2-methylphenol	<0.015		0.015	0.0043	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,4-Dinitrophenol	<0.015		0.015	0.0063	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,4-Dinitrotoluene	<0.00073		0.00073	0.00018	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,6-Dinitrotoluene	<0.00037		0.00037	0.000054	mg/L		03/06/16 18:18	03/11/16 18:34	1
Di-n-octyl phthalate	<0.0073		0.0073	0.00077	mg/L		03/06/16 18:18	03/11/16 18:34	1
Fluoranthene	<0.00073		0.00073	0.00033	mg/L		03/06/16 18:18	03/11/16 18:34	1
Fluorene	<0.00073		0.00073	0.00018	mg/L		03/06/16 18:18	03/11/16 18:34	1
Hexachlorobenzene	<0.00037		0.00037	0.000058	mg/L		03/06/16 18:18	03/11/16 18:34	1
Hexachlorobutadiene	<0.0037		0.0037	0.00038	mg/L		03/06/16 18:18	03/11/16 18:34	1
Hexachlorocyclopentadiene	<0.015		0.015	0.0047	mg/L		03/06/16 18:18	03/11/16 18:34	1
Hexachloroethane	<0.0037		0.0037	0.00044	mg/L		03/06/16 18:18	03/11/16 18:34	1
Indeno[1,2,3-cd]pyrene	<0.00015		0.00015	0.000055	mg/L		03/06/16 18:18	03/11/16 18:34	1
Isophorone	<0.0015		0.0015	0.00027	mg/L		03/06/16 18:18	03/11/16 18:34	1
2-Methylnaphthalene	<0.00037		0.00037	0.000048	mg/L		03/06/16 18:18	03/11/16 18:34	1
2-Methylphenol	<0.0015		0.0015	0.00022	mg/L		03/06/16 18:18	03/11/16 18:34	1
3 & 4 Methylphenol	<0.0015		0.0015	0.00033	mg/L		03/06/16 18:18	03/11/16 18:34	1
Naphthalene	<0.00073		0.00073	0.00023	mg/L		03/06/16 18:18	03/11/16 18:34	1
2-Nitroaniline	<0.0037		0.0037	0.00094	mg/L		03/06/16 18:18	03/11/16 18:34	1
3-Nitroaniline	<0.0073		0.0073	0.0013	mg/L		03/06/16 18:18	03/11/16 18:34	1
4-Nitroaniline	<0.0073		0.0073	0.0012	mg/L		03/06/16 18:18	03/11/16 18:34	1
Nitrobenzene	<0.00073		0.00073	0.00033	mg/L		03/06/16 18:18	03/11/16 18:34	1
2-Nitrophenol	<0.0073		0.0073	0.0018	mg/L		03/06/16 18:18	03/11/16 18:34	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-G01**

**Lab Sample ID: 500-108383-23**

Date Collected: 03/04/16 14:00

Matrix: Water

Date Received: 03/04/16 15:40

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.015		0.015	0.0054	mg/L		03/06/16 18:18	03/11/16 18:34	1
N-Nitrosodi-n-propylamine	<0.00037		0.00037	0.00011	mg/L		03/06/16 18:18	03/11/16 18:34	1
N-Nitrosodiphenylamine	<0.00073		0.00073	0.00027	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,2'-oxybis[1-chloropropane]	<0.0015		0.0015	0.00028	mg/L		03/06/16 18:18	03/11/16 18:34	1
Pentachlorophenol	<0.015		0.015	0.0029	mg/L		03/06/16 18:18	03/11/16 18:34	1
Phenanthrene	<0.00073		0.00073	0.00022	mg/L		03/06/16 18:18	03/11/16 18:34	1
<b>Phenol</b>	<b>0.00098</b>	<b>J</b>	0.0037	0.00049	mg/L		03/06/16 18:18	03/11/16 18:34	1
Pyrene	<0.00073		0.00073	0.00031	mg/L		03/06/16 18:18	03/11/16 18:34	1
1,2,4-Trichlorobenzene	<0.0015		0.0015	0.00017	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,4,5-Trichlorophenol	<0.0073		0.0073	0.0019	mg/L		03/06/16 18:18	03/11/16 18:34	1
2,4,6-Trichlorophenol	<0.0037		0.0037	0.00052	mg/L		03/06/16 18:18	03/11/16 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		41 - 132	03/06/16 18:18	03/11/16 18:34	1
2-Fluorophenol	62		32 - 110	03/06/16 18:18	03/11/16 18:34	1
Nitrobenzene-d5	73		47 - 134	03/06/16 18:18	03/11/16 18:34	1
Phenol-d5	51		25 - 100	03/06/16 18:18	03/11/16 18:34	1
Terphenyl-d14	74		59 - 150	03/06/16 18:18	03/11/16 18:34	1
2,4,6-Tribromophenol	87		53 - 150	03/06/16 18:18	03/11/16 18:34	1

## Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.0027</b>	<b>J</b>	0.0030	0.0010	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Arsenic</b>	<b>0.020</b>		0.0010	0.00044	mg/L		03/07/16 08:43	03/11/16 18:04	1
<b>Barium</b>	<b>0.33</b>		0.0025	0.00084	mg/L		03/07/16 08:43	03/10/16 18:41	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		03/07/16 08:43	03/11/16 18:04	1
<b>Cadmium</b>	<b>0.00050</b>		0.00050	0.00019	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Calcium</b>	<b>480</b>		4.0	2.1	mg/L		03/07/16 08:43	03/10/16 18:44	20
<b>Chromium</b>	<b>0.015</b>		0.0050	0.00061	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Cobalt</b>	<b>0.0050</b>		0.0010	0.00019	mg/L		03/07/16 08:43	03/11/16 18:04	1
<b>Copper</b>	<b>0.019</b>		0.0020	0.00096	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Iron</b>	<b>11</b>		0.10	0.026	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Lead</b>	<b>0.073</b>		0.00050	0.00014	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Magnesium</b>	<b>160</b>		0.20	0.083	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Manganese</b>	<b>0.92</b>		0.0025	0.00099	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Nickel</b>	<b>0.019</b>		0.0020	0.00053	mg/L		03/07/16 08:43	03/11/16 18:04	1
<b>Potassium</b>	<b>12</b>		0.50	0.19	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Selenium</b>	<b>0.0018</b>	<b>J</b>	0.0025	0.00083	mg/L		03/07/16 08:43	03/11/16 18:04	1
Silver	<0.00050		0.00050	0.000080	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Sodium</b>	<b>900</b>		4.0	1.8	mg/L		03/07/16 08:43	03/10/16 18:44	20
Thallium	<0.0020		0.0020	0.00059	mg/L		03/07/16 08:43	03/10/16 18:41	1
<b>Vanadium</b>	<b>0.0067</b>		0.0050	0.0022	mg/L		03/07/16 08:43	03/11/16 18:04	1
<b>Zinc</b>	<b>0.044</b>	<b>B</b>	0.020	0.0046	mg/L		03/07/16 08:43	03/11/16 18:04	1

## Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		03/05/16 16:15	03/07/16 19:17	1

TestAmerica Chicago



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: 2633-16-G01**

**Lab Sample ID: 500-108383-23**

**Date Collected: 03/04/16 14:00**

**Matrix: Water**

**Date Received: 03/04/16 15:40**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010	0.0021	mg/L		03/11/16 16:30	03/11/16 19:27	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-108383-25**

**Date Collected: 03/04/16 00:00**

**Matrix: Water**

**Date Received: 03/04/16 15:40**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			03/11/16 15:50	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/11/16 15:50	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/11/16 15:50	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/11/16 15:50	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/11/16 15:50	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/11/16 15:50	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/11/16 15:50	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:50	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			03/11/16 15:50	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			03/11/16 15:50	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/11/16 15:50	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/11/16 15:50	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/11/16 15:50	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/11/16 15:50	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/11/16 15:50	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:50	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:50	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/11/16 15:50	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/11/16 15:50	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/11/16 15:50	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/11/16 15:50	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/11/16 15:50	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/11/16 15:50	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/11/16 15:50	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:50	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/11/16 15:50	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/11/16 15:50	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/11/16 15:50	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/11/16 15:50	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/11/16 15:50	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/11/16 15:50	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/11/16 15:50	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/11/16 15:50	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/11/16 15:50	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/11/16 15:50	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/11/16 15:50	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/11/16 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120		03/11/16 15:50	1
Dibromofluoromethane	85		75 - 120		03/11/16 15:50	1
1,2-Dichloroethane-d4 (Surr)	91		75 - 125		03/11/16 15:50	1
Toluene-d8 (Surr)	92		75 - 120		03/11/16 15:50	1

TestAmerica Chicago

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: Matt Weiss  
Company: Terracon  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: 630-717-4203  
Fax: 670-357-9471  
E-Mail: Matt.Weiss@terracon.com

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# 500-108383 COC

## Chain of Custody Record

Lab Job #: 500-108383

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: (3.6)(2.0)(2.0)



Client		Client Project #		Preservative		Parameter		Total 23		Inorganics		PH		SPLP 23		Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		SAMPLER		Lab PM		VOCs		SVOCs		Total 23		Inorganics		SPLP 23		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix												Comments
1		2633-16-801 (0-5)	3/4/16	11:15	6	S	✓	✓	✓	✓	✓	✓	✓					HOLD SPLP
2		2633-16-801 (5-10)	3/4/16	11:20	6	S	✓	✓	✓	✓	✓	✓	✓					Analysis
3		2633-16-801 (10-15)	3/4/16	11:25	6	S	✓	✓	✓	✓	✓	✓	✓					
4		2633-16-802 (0-5)	3/4/16	10:25	6	S	✓	✓	✓	✓	✓	✓	✓					
5		2633-16-802 (5-10)	3/4/16	10:30	6	S	✓	✓	✓	✓	✓	✓	✓					
6		2633-16-802 (5-10) Rep	3/4/16	10:35	6	S	✓	✓	✓	✓	✓	✓	✓					
7		2633-16-802 (10-15)	3/4/16	10:40	6	S	✓	✓	✓	✓	✓	✓	✓					
8		2633-16-803 (0-5)	3/4/16	9:40	6	S	✓	✓	✓	✓	✓	✓	✓					
9		2633-16-803 (5-10)	3/4/16	9:45	6	S	✓	✓	✓	✓	✓	✓	✓					
10		2633-16-803 (10-15)	3/4/16	9:50	6	S	✓	✓	✓	✓	✓	✓	✓					

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u> Company <u>Terracon</u>	Date <u>3/4/16</u>	Time <u>2:30</u>	Received By <u>David Becker</u> Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>14:53</u>
Relinquished By <u>David Becker</u> Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>15:40</u>	Received By <u>Stef</u> Company <u>TAL</u>	Date <u>03/04/16</u>	Time <u>1540</u>
Relinquished By _____	Date _____	Time _____	Received By _____	Date _____	Time _____

Lab Courier   
Shipped   
Hand Delivered

Matrix Key  
WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OL - Oil O - Other  
A - Air

Client Comments  
met IL TALO requirements & please HOLD SPLP analysis. Thank you.

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-357-9189  
 E-Mail: Matt.Weiss@terracon.com

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108383  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23		Total 23		pH		SPLP 23		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Matrix		Matrix		Matrix		Matrix		Matrix		Comments		
Project Location/State		Lab PM		# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix				
Sampler		Date											Time			
LaGrange, IL		11157115		VOCS		SVOCs		Total 23		Total 23		pH		SPLP 23		HOLD SPLP Analysis
OTK																
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
11		2633-16-004 (0-5)	3/4/16	8:45	6	S	✓	✓	✓	✓	✓	✓	✓			
12		2633-16-004 (5-10)	3/4/16	8:50	6	S	✓	✓	✓	✓	✓	✓	✓			
13		2633-16-004 (5-10) Dup	3/4/16	8:55	6	S	✓	✓	✓	✓	✓	✓	✓			
14		2633-16-004 (10-15)	3/4/16	9:00	6	S	✓	✓	✓	✓	✓	✓	✓			
15		2633-16-004 (15-20)	3/4/16	9:05	6	S	✓	✓	✓	✓	✓	✓	✓			

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>And Kelly</u>	Company <u>Terracon</u>	Date <u>3/4/16</u>	Time <u>2:30</u>	Received By <u>David Becken</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>14:58</u>
Relinquished By <u>David Becken</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>15:40</u>	Received By <u>Jmk</u>	Company <u>TAL</u>	Date <u>03/04/16</u>	Time <u>1540</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: \_\_\_\_\_  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: NEED IL TACO Requirements & please HOLD SPLP analysis. Thank you.

Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
Contact: Matt Weiss  
Company: Terracon  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: 630-717-4267  
Fax: 630-757-9489  
E-Mail: Matt.Weiss@terracon.com

Bill To (optional)  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108383  
Chain of Custody Number: \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter	VOCs	SVOCs	Total VOCs	Inorganics	Comments
Project Name		Lab Project #		Sampling							
Project Location/State		Lab PM		Date	Time						
<u>Library, IL</u>		<u>CTX</u>		<u>3/4/16 2:00</u>		<u>7</u>	<u>W</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Lab ID	MS/MSD	Sample ID		Date	Time	# of Containers	Matrix				
<u>23</u>		<u>2633-16-601</u>		<u>3/4/16</u>	<u>2:00</u>	<u>7</u>	<u>W</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u> Company <u>Terracon</u>	Date <u>3/1/16</u>	Time <u>2:30</u>	Received By <u>Dave Becken</u> Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>14:54</u>
Relinquished By <u>Dave Becken</u> Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>15:40</u>	Received By <u>[Signature]</u> Company <u>TAL</u>	Date <u>03/04/16</u>	Time <u>1540</u>
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier \_\_\_\_\_  
Shipped \_\_\_\_\_  
Hand Delivered \_\_\_\_\_

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments: Matt IL TACO Requirements, Thank you.

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108383-1

**Login Number: 108383**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Kelsey, Shawn M**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(3.6)(2.8)(2.0)c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	







Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

US 34 (near US 34 and LaGrange Rd intersection) from IDOT STA 100+62 to 101+50 (ISGS Site 2633-17)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.81793 Longitude: -87.86979  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B03 was sampled adjacent to ISGS Site No 2633-17.  
See Exhibits 2, 2G, and Table 29 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J108383-2. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Michael Roche (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

Company Name: Terracon Consultants, Inc  
 Street Address: 135 Ambassador Drive  
 City: Naperville State: IL Zip Code: 60540  
 Phone: 630-717-4263

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-17-B03 (0-5)	2633-17-B03 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/04/2016	03/04/2016
<b>Volatile Organic Analytical Parameters</b>							
Acetone	mg/kg	---	---	25		<0.019	<0.019
<b>Semivolatile Organic Analytical Parameters</b>							
Chrysene	mg/kg	1.2	2.7	88		<0.039	<0.041
Pyrene	mg/kg	1.9	3.0	2300		<0.039	<0.041
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		8.6	9.4
Barium	mg/kg	---	110	1500		62	41
Cadmium	mg/kg	---	0.6	5.2		<0.098	<0.12
Chromium, total	mg/kg	---	16.2	21		17	20
Lead	mg/kg	---	36	107		17	20
Mercury	mg/kg	---	0.06	0.1		0.038	0.038
Selenium	mg/kg	---	0.48	1.3		<0.49	0.33
Silver	mg/kg	---	0.55	4.4		<0.25	<0.30
Antimony	mg/kg	---	4.0	5		<0.98	<1.2
Beryllium	mg/kg	---	0.59	22		0.73	0.74
Calcium	mg/kg	---	9,300	---		1700	3600
Cobalt	mg/kg	---	8.9	20		16	18
Copper	mg/kg	---	19.6	2900		25	34
Cyanide	mg/kg	---	0.51	---		<0.55	<0.61
Iron	mg/kg	---	15,900	15000		20000	23000
Magnesium	mg/kg	---	4,820	325000		3500	5200
Manganese	mg/kg	---	636	630		460	370
Nickel	mg/kg	---	18	100		37	47
Potassium	mg/kg	---	1,268	---		1200	1500
Sodium	mg/kg	---	130	---		450	710
Thallium	mg/kg	---	0.32	2.6		<0.49	0.6
Vanadium	mg/kg	---	25.2	550		25	21
Zinc	mg/kg	---	95	5100		64	70
pH			6.25	9		7.97	8.33
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		--	--
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-17-B03 (0-5)	2633-17-B03 (5-10)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/04/2016	03/04/2016
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.27	0.23
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		46	120
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		18	52
Manganese,TCLP	mg/L	---	---	---		0.028	0.1
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.5	1
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.037	0.02

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-17-B03 (10-15)	2633-17-B03 (10-15) Dup
				CCDD	Sample Depth (feet)	(10-15)	(10-15)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/04/2016	03/04/2016
<b>Volatile Organic Analytical Parameters</b>							
Acetone	mg/kg	---	---	25		0.02	0.018
<b>Semivolatile Organic Analytical Parameters</b>							
Chrysene	mg/kg	1.2	2.7	88		0.035	0.02
Pyrene	mg/kg	1.9	3.0	2300		0.078	0.017
<b>Inorganic Analytical Parameters</b>							
Arsenic	mg/kg	---	13	11.3		6.3	11
Barium	mg/kg	---	110	1500		10	16
Cadmium	mg/kg	---	0.6	5.2		0.14	0.19
Chromium, total	mg/kg	---	16.2	21		9.7	8.4
Lead	mg/kg	---	36	107		20	20
Mercury	mg/kg	---	0.06	0.1		0.033	0.039
Selenium	mg/kg	---	0.48	1.3		1.5	0.54
Silver	mg/kg	---	0.55	4.4		<0.24	<0.24
Antimony	mg/kg	---	4.0	5		<0.95	0.29
Beryllium	mg/kg	---	0.59	22		0.49	0.43
Calcium	mg/kg	---	9,300	---		60000	82000
Cobalt	mg/kg	---	8.9	20		9.3	11
Copper	mg/kg	---	19.6	2900		33	32
Cyanide	mg/kg	---	0.51	---		<0.54	<0.53
Iron	mg/kg	---	15,900	15000		14000	16000
Magnesium	mg/kg	---	4,820	325000		29000	32000
Manganese	mg/kg	---	636	630		260	390
Nickel	mg/kg	---	18	100		25	27
Potassium	mg/kg	---	1,268	---		1200	1200
Sodium	mg/kg	---	130	---		500	570
Thallium	mg/kg	---	0.32	2.6		<0.48	0.37
Vanadium	mg/kg	---	25.2	550		13	13
Zinc	mg/kg	---	95	5100		80	84
pH			6.25	9		8.51	8.18
<b>Inorganic Analytical Parameters (SPLP)</b>							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.26	0.54
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-17-B03 (10-15)	2633-17-B03 (10-15) Dup
				CCDD	Sample Depth (feet)	(10-15)	(10-15)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/04/2016	03/04/2016
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--
<b>Inorganic Analytical Parameters (TCLP)</b>							
Arsenic,TCLP	mg/L	---	---	---		<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.13	0.2
Cadmium,TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		260	290
Cobalt,TCLP	mg/L	---	---	---		<0.025	0.016
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		----	----
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		110	82
Manganese,TCLP	mg/L	---	---	---		1.4	2.9
Nickel,TCLP	mg/L	---	---	---		<0.025	0.017
Potassium,TCLP	mg/L	---	---	---		1.7	1.6
Sodium,TCLP	mg/L	---	---	---		----	----
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.029	0.2

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-108383-2

Client Project/Site: IDOT - LaGrange - WO 015

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/18/2016 4:55:32 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Job ID: 500-108383-2**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108383-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/4/2016 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0° C, 2.8° C and 3.6° C.

#### GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCSD associated with 500-325907: Vinyl Acetate. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

Method(s) 8260B: The following sample was diluted due to the abundance of non-target analytes: 2633-17-B02 (10-15) (500-108383-18). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Two internal standard responses and two surrogate recoveries were outside of acceptance limits for the following sample: 2633-17-B03 (10-15) (500-108383-21). The sample was re-analyzed with similar results. The best analysis has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for batch preparation batch 500-326358 and analytical batch 500-326590 recovered outside control limits for the following analyte: 2,4-Dimethylphenol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The continuing calibration verification (CCV) at line 51 was outside the control limits for Zinc bracketing the method blank (MB) and laboratory control sample (LCS). The MB and LCS were within the method control limits. The associated sample 2633-17-B02 (0-5) (500-108383-16), 2633-17-B02 (5-10) (500-108383-17), 2633-17-B02 (10-15) (500-108383-18), 2633-17-B03 (0-5) (500-108383-19) and 2633-17-B03 (5-10) (500-108383-20) were bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

Method(s) 6010B: The laboratory blank (LB) for preparation batch 500-327096, 500-327097 and 500-327187 contained Zinc above the reporting limit (RL). The samples 2633-17-B02 (0-5) (500-108383-16), 2633-17-B02 (5-10) (500-108383-17), 2633-17-B02 (10-15) (500-108383-18), 2633-17-B03 (0-5) (500-108383-19) and 2633-17-B03 (5-10) (500-108383-20) associated with this LB did not contain the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 6010B: The laboratory blank (LB) for preparation batch 500-327086 and 500-327151 contained Zinc above the reporting limit (RL). The samples 2633-17-B03 (10-15) (500-108383-21) and 2633-17-B03 (10-15) Dup (500-108383-22) associated with this LB did not contain the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 6020A: The continuing calibration verification (CCV), at lines 24 and 36, associated with batch 500-327385 recovered above the upper control limit for Thallium. The associated low level continuing calibration verification (CCVL) were all within control limits. The samples associated with these CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 500-108383-21 and 22.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

---

## Job ID: 500-108383-2 (Continued)

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### Laboratory: TestAmerica Chicago (Continued)

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (0-5)**

**Lab Sample ID: 500-108383-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0072	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0089	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.010	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.23	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	13	B	0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	56000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	220		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	57	B	1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	B	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	5.1		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	1.3		0.60	0.20	mg/Kg	1	☼	9014	Total/NA
pH	8.68		0.200	0.200	SU	1		9045D	Total/NA

**Client Sample ID: 2633-17-B02 (5-10)**

**Lab Sample ID: 500-108383-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.076	J	0.20	0.072	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.024	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.062	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

## Client Sample ID: 2633-17-B02 (5-10) (Continued)

## Lab Sample ID: 500-108383-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000		110	36	mg/Kg	10	☼	6010B	Total/NA
Manganese	760		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	59		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.76		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	59	B	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100	B	28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	21		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.95		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-17-B02 (10-15)

## Lab Sample ID: 500-108383-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.54		0.028	0.016	mg/Kg	100	☼	8260B	Total/NA
Toluene	0.13		0.028	0.016	mg/Kg	100	☼	8260B	Total/NA
Chrysene	0.026	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.091		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.069		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	17		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000		110	35	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.40	J	0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	67	B	1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	670		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

## Client Sample ID: 2633-17-B02 (10-15) (Continued)

## Lab Sample ID: 500-108383-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.086		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.024	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.97		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-17-B03 (0-5)

## Lab Sample ID: 500-108383-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.20	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.25	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	9.8	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	1700		9.8	3.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	64	B	0.98	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	B	25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		49	6.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	46		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	18		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.038		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.97		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-17-B03 (5-10)

## Lab Sample ID: 500-108383-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

## Client Sample ID: 2633-17-B03 (5-10) (Continued)

## Lab Sample ID: 500-108383-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5200	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	3600		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	47		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.60		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	70	B	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500	B	30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	710		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	120		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	52		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.038		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-17-B03 (10-15)

## Lab Sample ID: 500-108383-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.018	0.0034	mg/Kg	1	☼	8260B	Total/NA
Chrysene	0.035	J	0.036	0.0098	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.078		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	10		0.48	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.095	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.7	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	33	B	0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		9.5	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000	F2 B	95	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	260	B	0.48	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.5		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		0.95	0.30	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200	F1	24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.029	J B	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

## Client Sample ID: 2633-17-B03 (10-15) (Continued)

## Lab Sample ID: 500-108383-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033	F1 B	0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.51		0.200	0.200	SU	1		9045D	Total/NA

## Client Sample ID: 2633-17-B03 (10-15) Dup

## Lab Sample ID: 500-108383-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.018		0.018	0.0034	mg/Kg	1	☼	8260B	Total/NA
Chrysene	0.020	J	0.035	0.0097	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	0.96	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	16		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19		0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.4	B	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	32	B	0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	4.8	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	82000	B	96	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	390	B	0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	84		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	82		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039	B	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.18		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108383-16	2633-17-B02 (0-5)	Solid	03/04/16 12:50	03/04/16 15:40
500-108383-17	2633-17-B02 (5-10)	Solid	03/04/16 12:55	03/04/16 15:40
500-108383-18	2633-17-B02 (10-15)	Solid	03/04/16 13:00	03/04/16 15:40
500-108383-19	2633-17-B03 (0-5)	Solid	03/04/16 12:10	03/04/16 15:40
500-108383-20	2633-17-B03 (5-10)	Solid	03/04/16 12:15	03/04/16 15:40
500-108383-21	2633-17-B03 (10-15)	Solid	03/04/16 12:20	03/04/16 15:40
500-108383-22	2633-17-B03 (10-15) Dup	Solid	03/04/16 12:25	03/04/16 15:40





# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (0-5)**

**Lab Sample ID: 500-108383-16**

**Date Collected: 03/04/16 12:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Vinyl acetate	<0.0044	*	0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	03/04/16 16:50	03/08/16 05:47	1
Dibromofluoromethane	109		75 - 120	03/04/16 16:50	03/08/16 05:47	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	03/04/16 16:50	03/08/16 05:47	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 16:50	03/08/16 05:47	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
<b>Benzo[a]anthracene</b>	<b>0.0072</b>	<b>J</b>	0.039	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (0-5)**

**Lab Sample ID: 500-108383-16**

**Date Collected: 03/04/16 12:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.0089</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0084	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
<b>Fluoranthene</b>	<b>0.010</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (0-5)**

**Lab Sample ID: 500-108383-16**

Date Collected: 03/04/16 12:50

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 82.7

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
<b>Pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	03/09/16 07:14	03/10/16 02:59	1
2-Fluorophenol	69		25 - 110	03/09/16 07:14	03/10/16 02:59	1
Nitrobenzene-d5	72		25 - 115	03/09/16 07:14	03/10/16 02:59	1
Phenol-d5	44		31 - 110	03/09/16 07:14	03/10/16 02:59	1
Terphenyl-d14	101		36 - 134	03/09/16 07:14	03/10/16 02:59	1
2,4,6-Tribromophenol	84		35 - 137	03/09/16 07:14	03/10/16 02:59	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.23</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Arsenic</b>	<b>10</b>		0.57	0.26	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Barium</b>	<b>26</b>		0.57	0.10	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.049	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.033	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Chromium</b>	<b>13</b>	<b>B</b>	0.57	0.097	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Cobalt</b>	<b>14</b>		0.28	0.064	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Copper</b>	<b>30</b>		0.57	0.12	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Iron</b>	<b>17000</b>	<b>B</b>	11	4.4	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Lead</b>	<b>22</b>		0.28	0.14	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Magnesium</b>	<b>24000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Calcium</b>	<b>56000</b>		110	36	mg/Kg	☼	03/09/16 09:13	03/10/16 06:09	10
<b>Manganese</b>	<b>220</b>		0.57	0.11	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Nickel</b>	<b>26</b>		0.57	0.15	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Selenium</b>	<b>0.60</b>		0.57	0.28	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Vanadium</b>	<b>19</b>		0.28	0.083	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Zinc</b>	<b>57</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Potassium</b>	<b>1400</b>	<b>B</b>	28	4.6	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1
<b>Sodium</b>	<b>2700</b>		57	7.5	mg/Kg	☼	03/09/16 09:13	03/10/16 00:06	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (0-5)**

**Lab Sample ID: 500-108383-16**

**Date Collected: 03/04/16 12:50**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.7**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>210</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:51	1
<b>Magnesium</b>	<b>120</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:51	1
<b>Manganese</b>	<b>4.4</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
<b>Potassium</b>	<b>5.1</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:51	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:51	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:51	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 15:25	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:33	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:33	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 13:00	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.037</b>		0.020	0.010	mg/Kg	☼	03/09/16 14:00	03/11/16 15:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cyanide, Total</b>	<b>1.3</b>		0.60	0.20	mg/Kg	☼	03/11/16 14:15	03/11/16 18:35	1
<b>pH</b>	<b>8.68</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (5-10)**

**Lab Sample ID: 500-108383-17**

Date Collected: 03/04/16 12:55

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 82.9

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Vinyl acetate	<0.0046 *		0.0046	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/04/16 16:50	03/08/16 06:13	1
Dibromofluoromethane	108		75 - 120	03/04/16 16:50	03/08/16 06:13	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	03/04/16 16:50	03/08/16 06:13	1
Toluene-d8 (Surr)	104		75 - 122	03/04/16 16:50	03/08/16 06:13	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (5-10)**

**Lab Sample ID: 500-108383-17**

**Date Collected: 03/04/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.076</b>	<b>J</b>	0.20	0.072	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
<b>Chrysene</b>	<b>0.022</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (5-10)**

**Lab Sample ID: 500-108383-17**

Date Collected: 03/04/16 12:55

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 82.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
<b>Phenanthrene</b>	<b>0.024</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	03/09/16 07:14	03/10/16 03:25	1
2-Fluorophenol	70		25 - 110	03/09/16 07:14	03/10/16 03:25	1
Nitrobenzene-d5	74		25 - 115	03/09/16 07:14	03/10/16 03:25	1
Phenol-d5	46		31 - 110	03/09/16 07:14	03/10/16 03:25	1
Terphenyl-d14	98		36 - 134	03/09/16 07:14	03/10/16 03:25	1
2,4,6-Tribromophenol	55		35 - 137	03/09/16 07:14	03/10/16 03:25	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Arsenic</b>	<b>8.4</b>		0.55	0.26	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Barium</b>	<b>60</b>		0.55	0.10	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Beryllium</b>	<b>0.69</b>		0.22	0.048	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Cadmium</b>	<b>0.062</b>	<b>J</b>	0.11	0.032	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.55	0.095	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Cobalt</b>	<b>16</b>		0.28	0.062	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Copper</b>	<b>28</b>		0.55	0.12	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	4.3	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Lead</b>	<b>14</b>		0.28	0.14	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.5	2.2	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Calcium</b>	<b>68000</b>		110	36	mg/Kg	☼	03/09/16 09:13	03/10/16 06:21	10
<b>Manganese</b>	<b>760</b>		0.55	0.11	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Nickel</b>	<b>59</b>		0.55	0.15	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Selenium</b>	<b>0.50</b>	<b>J</b>	0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Thallium</b>	<b>0.76</b>		0.55	0.27	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Vanadium</b>	<b>20</b>		0.28	0.081	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Zinc</b>	<b>59</b>	<b>B</b>	1.1	0.35	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Potassium</b>	<b>2100</b>	<b>B</b>	28	4.5	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1
<b>Sodium</b>	<b>1500</b>		55	7.3	mg/Kg	☼	03/09/16 09:13	03/10/16 00:12	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 18:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 18:56	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (5-10)**

**Lab Sample ID: 500-108383-17**

**Date Collected: 03/04/16 12:55**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 82.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>500</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 18:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 18:56	1
<b>Magnesium</b>	<b>21</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:56	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
<b>Potassium</b>	<b>1.4</b>	<b>J</b>	2.5	0.50	mg/L		03/15/16 16:50	03/16/16 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 18:56	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 18:56	1
Zinc	<0.50		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 18:56	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.95</b>		0.025	0.010	mg/L		03/15/16 14:58	03/17/16 15:30	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:37	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:37	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 13:02	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.028</b>		0.018	0.0096	mg/Kg	☼	03/09/16 14:00	03/11/16 15:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	03/11/16 14:15	03/11/16 18:37	1
<b>pH</b>	<b>8.56</b>		0.200	0.200	SU			03/09/16 09:12	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (10-15)**

**Lab Sample ID: 500-108383-18**

**Date Collected: 03/04/16 13:00**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.56		0.56	0.19	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
<b>Benzene</b>	<b>0.54</b>		0.028	0.016	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Bromodichloromethane	<0.11		0.11	0.041	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Bromoform	<0.11		0.11	0.054	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Bromomethane	<0.22		0.22	0.088	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
2-Butanone (MEK)	<0.56		0.56	0.24	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Carbon disulfide	<0.22		0.22	0.089	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Carbon tetrachloride	<0.11		0.11	0.043	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Chlorobenzene	<0.11		0.11	0.043	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Chloroethane	<0.11		0.11	0.056	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Chloroform	<0.11		0.11	0.041	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Chloromethane	<0.11		0.11	0.036	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
cis-1,2-Dichloroethene	<0.11		0.11	0.045	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
cis-1,3-Dichloropropene	<0.11		0.11	0.046	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Dibromochloromethane	<0.11		0.11	0.054	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,1-Dichloroethane	<0.11		0.11	0.046	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,2-Dichloroethane	<0.11		0.11	0.044	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,1-Dichloroethene	<0.11		0.11	0.043	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,2-Dichloropropane	<0.11		0.11	0.048	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,3-Dichloropropene, Total	<0.11		0.11	0.046	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Ethylbenzene	<0.028		0.028	0.020	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
2-Hexanone	<0.56		0.56	0.17	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Methylene Chloride	<0.56		0.56	0.18	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
4-Methyl-2-pentanone (MIBK)	<0.56		0.56	0.24	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Methyl tert-butyl ether	<0.11		0.11	0.044	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Styrene	<0.11		0.11	0.043	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,1,2,2-Tetrachloroethane	<0.11		0.11	0.044	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Tetrachloroethene	<0.11		0.11	0.041	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
<b>Toluene</b>	<b>0.13</b>		0.028	0.016	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
trans-1,2-Dichloroethene	<0.11		0.11	0.039	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
trans-1,3-Dichloropropene	<0.11		0.11	0.040	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,1,1-Trichloroethane	<0.11		0.11	0.042	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
1,1,2-Trichloroethane	<0.11		0.11	0.039	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Trichloroethene	<0.056		0.056	0.018	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Vinyl acetate	<0.22		0.22	0.10	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Vinyl chloride	<0.056		0.056	0.029	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100
Xylenes, Total	<0.056		0.056	0.024	mg/Kg	☼	03/04/16 13:00	03/11/16 14:26	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120	03/04/16 13:00	03/11/16 14:26	100
Dibromofluoromethane	83		75 - 120	03/04/16 13:00	03/11/16 14:26	100
1,2-Dichloroethane-d4 (Surr)	94		75 - 125	03/04/16 13:00	03/11/16 14:26	100
Toluene-d8 (Surr)	91		75 - 120	03/04/16 13:00	03/11/16 14:26	100

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (10-15)**

**Lab Sample ID: 500-108383-18**

**Date Collected: 03/04/16 13:00**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
<b>Chrysene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0098	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,4-Dinitrophenol	<0.73		0.73	0.63	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
<b>2-Methylnaphthalene</b>	<b>0.091</b>		0.036	0.0066	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (10-15)**

**Lab Sample ID: 500-108383-18**

**Date Collected: 03/04/16 13:00**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
<b>Phenanthrene</b>	<b>0.069</b>		0.036	0.0050	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
<b>Pyrene</b>	<b>0.019 J</b>		0.036	0.0072	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	03/09/16 07:14	03/10/16 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	03/09/16 07:14	03/10/16 04:46	1
2-Fluorophenol	73		25 - 110	03/09/16 07:14	03/10/16 04:46	1
Nitrobenzene-d5	77		25 - 115	03/09/16 07:14	03/10/16 04:46	1
Phenol-d5	60		31 - 110	03/09/16 07:14	03/10/16 04:46	1
Terphenyl-d14	106		36 - 134	03/09/16 07:14	03/10/16 04:46	1
2,4,6-Tribromophenol	68		35 - 137	03/09/16 07:14	03/10/16 04:46	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Arsenic</b>	<b>8.6</b>		0.54	0.25	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Barium</b>	<b>17</b>		0.54	0.098	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Beryllium</b>	<b>0.49</b>		0.21	0.046	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Cadmium</b>	<b>0.14</b>		0.11	0.031	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Chromium</b>	<b>12 B</b>		0.54	0.092	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Cobalt</b>	<b>11</b>		0.27	0.061	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Copper</b>	<b>30</b>		0.54	0.12	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Iron</b>	<b>16000 B</b>		11	4.1	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Lead</b>	<b>15</b>		0.27	0.13	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Magnesium</b>	<b>23000 B</b>		5.4	2.2	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Calcium</b>	<b>68000</b>		110	35	mg/Kg	☼	03/09/16 09:13	03/10/16 06:25	10
<b>Manganese</b>	<b>310</b>		0.54	0.11	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Nickel</b>	<b>29</b>		0.54	0.15	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Selenium</b>	<b>0.51 J</b>		0.54	0.27	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Thallium</b>	<b>0.40 J</b>		0.54	0.26	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Vanadium</b>	<b>14</b>		0.27	0.078	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Zinc</b>	<b>67 B</b>		1.1	0.34	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Potassium</b>	<b>1500 B</b>		27	4.4	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1
<b>Sodium</b>	<b>670</b>		54	7.1	mg/Kg	☼	03/09/16 09:13	03/10/16 00:17	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Barium</b>	<b>0.28 J</b>		0.50	0.050	mg/L		03/15/16 16:50	03/16/16 19:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 19:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 19:09	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B02 (10-15)**

**Lab Sample ID: 500-108383-18**

**Date Collected: 03/04/16 13:00**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.4**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>500</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 19:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Cobalt</b>	<b>0.045</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 19:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Magnesium</b>	<b>28</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Nickel</b>	<b>0.086</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Potassium</b>	<b>3.7</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 19:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 19:09	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:09	1
<b>Zinc</b>	<b>0.024</b>	<b>J B</b>	0.50	0.020	mg/L		03/15/16 16:50	03/16/16 19:09	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 14:58	03/17/16 15:34	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:41	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:41	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 13:04	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>		0.018	0.0096	mg/Kg	☼	03/09/16 14:00	03/11/16 15:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.16	mg/Kg	☼	03/11/16 14:15	03/11/16 18:37	1
<b>pH</b>	<b>7.97</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (0-5)**

**Lab Sample ID: 500-108383-19**

**Date Collected: 03/04/16 12:10**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.6**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Vinyl acetate	<0.0048 *		0.0048	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/04/16 16:50	03/08/16 06:38	1
Dibromofluoromethane	107		75 - 120	03/04/16 16:50	03/08/16 06:38	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/04/16 16:50	03/08/16 06:38	1
Toluene-d8 (Surr)	105		75 - 122	03/04/16 16:50	03/08/16 06:38	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (0-5)**

**Lab Sample ID: 500-108383-19**

**Date Collected: 03/04/16 12:10**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,4-Dimethylphenol	<0.39 *		0.39	0.15	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (0-5)**

**Lab Sample ID: 500-108383-19**

Date Collected: 03/04/16 12:10

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 80.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/10/16 07:07	03/11/16 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	03/10/16 07:07	03/11/16 12:26	1
2-Fluorophenol	99		25 - 110	03/10/16 07:07	03/11/16 12:26	1
Nitrobenzene-d5	82		25 - 115	03/10/16 07:07	03/11/16 12:26	1
Phenol-d5	84		31 - 110	03/10/16 07:07	03/11/16 12:26	1
Terphenyl-d14	82		36 - 134	03/10/16 07:07	03/11/16 12:26	1
2,4,6-Tribromophenol	56		35 - 137	03/10/16 07:07	03/11/16 12:26	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.20	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Arsenic</b>	<b>8.6</b>		0.49	0.23	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Barium</b>	<b>62</b>		0.49	0.090	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Beryllium</b>	<b>0.73</b>		0.20	0.042	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
Cadmium	<0.098		0.098	0.028	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Chromium</b>	<b>17 B</b>		0.49	0.084	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Cobalt</b>	<b>16</b>		0.25	0.055	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Copper</b>	<b>25</b>		0.49	0.11	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Iron</b>	<b>20000 B</b>		9.8	3.8	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Lead</b>	<b>17</b>		0.25	0.12	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Magnesium</b>	<b>3500 B</b>		4.9	2.0	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Calcium</b>	<b>1700</b>		9.8	3.2	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Manganese</b>	<b>460</b>		0.49	0.097	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Nickel</b>	<b>37</b>		0.49	0.13	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
Silver	<0.25		0.25	0.057	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Vanadium</b>	<b>25</b>		0.25	0.072	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Zinc</b>	<b>64 B</b>		0.98	0.31	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Potassium</b>	<b>1200 B</b>		25	4.0	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1
<b>Sodium</b>	<b>450</b>		49	6.5	mg/Kg	☼	03/09/16 09:13	03/10/16 00:22	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
<b>Barium</b>	<b>0.27 J</b>		0.50	0.050	mg/L		03/15/16 16:50	03/16/16 19:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 19:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (0-5)**

**Lab Sample ID: 500-108383-19**

**Date Collected: 03/04/16 12:10**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.6**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>46</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 19:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 19:14	1
<b>Magnesium</b>	<b>18</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 19:14	1
<b>Manganese</b>	<b>0.028</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
<b>Potassium</b>	<b>1.5 J</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 19:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 19:14	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:14	1
<b>Zinc</b>	<b>0.037 J B</b>		0.50	0.020	mg/L		03/15/16 16:50	03/16/16 19:14	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:45	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:45	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 13:06	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.020	0.011	mg/Kg	☼	03/09/16 14:00	03/11/16 15:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/11/16 14:15	03/11/16 18:38	1
<b>pH</b>	<b>7.97</b>		0.200	0.200	SU			03/09/16 09:12	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (5-10)**

**Lab Sample ID: 500-108383-20**

**Date Collected: 03/04/16 12:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Benzene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Bromoform	<0.0047		0.0047	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Dibromochloromethane	<0.0047		0.0047	0.00055	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,1-Dichloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Tetrachloroethene	<0.0047		0.0047	0.00099	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	03/04/16 16:50	03/08/16 09:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	03/04/16 16:50	03/08/16 09:46	1
Dibromofluoromethane	103		75 - 120	03/04/16 16:50	03/08/16 09:46	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/04/16 16:50	03/08/16 09:46	1
Toluene-d8 (Surr)	106		75 - 122	03/04/16 16:50	03/08/16 09:46	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (5-10)**

**Lab Sample ID: 500-108383-20**

**Date Collected: 03/04/16 12:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,4-Dimethylphenol	<0.41	*	0.41	0.16	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (5-10)**

**Lab Sample ID: 500-108383-20**

**Date Collected: 03/04/16 12:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.1**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	03/10/16 07:07	03/11/16 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	03/10/16 07:07	03/11/16 12:51	1
2-Fluorophenol	85		25 - 110	03/10/16 07:07	03/11/16 12:51	1
Nitrobenzene-d5	74		25 - 115	03/10/16 07:07	03/11/16 12:51	1
Phenol-d5	76		31 - 110	03/10/16 07:07	03/11/16 12:51	1
Terphenyl-d14	79		36 - 134	03/10/16 07:07	03/11/16 12:51	1
2,4,6-Tribromophenol	51		35 - 137	03/10/16 07:07	03/11/16 12:51	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Arsenic</b>	<b>9.4</b>		0.60	0.28	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Barium</b>	<b>41</b>		0.60	0.11	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Beryllium</b>	<b>0.74</b>		0.24	0.052	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Chromium</b>	<b>20</b>	<b>B</b>	0.60	0.10	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Cobalt</b>	<b>18</b>		0.30	0.068	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Copper</b>	<b>34</b>		0.60	0.13	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Iron</b>	<b>23000</b>	<b>B</b>	12	4.6	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Lead</b>	<b>20</b>		0.30	0.15	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Magnesium</b>	<b>5200</b>	<b>B</b>	6.0	2.4	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Calcium</b>	<b>3600</b>		12	3.9	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Manganese</b>	<b>370</b>		0.60	0.12	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Nickel</b>	<b>47</b>		0.60	0.16	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Selenium</b>	<b>0.33</b>	<b>J</b>	0.60	0.30	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Thallium</b>	<b>0.60</b>		0.60	0.30	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Vanadium</b>	<b>21</b>		0.30	0.088	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Zinc</b>	<b>70</b>	<b>B</b>	1.2	0.38	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Potassium</b>	<b>1500</b>	<b>B</b>	30	4.9	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1
<b>Sodium</b>	<b>710</b>		60	8.0	mg/Kg	☼	03/09/16 09:13	03/10/16 00:26	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 16:50	03/16/16 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 16:50	03/16/16 19:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 16:50	03/16/16 19:19	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (5-10)**

**Lab Sample ID: 500-108383-20**

**Date Collected: 03/04/16 12:15**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 80.1**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>120</b>		5.0	0.50	mg/L		03/15/16 16:50	03/16/16 19:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 16:50	03/16/16 19:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 16:50	03/16/16 19:19	1
<b>Magnesium</b>	<b>52</b>		2.5	0.50	mg/L		03/15/16 16:50	03/16/16 19:19	1
<b>Manganese</b>	<b>0.10</b>		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
<b>Potassium</b>	<b>1.0</b>	<b>J</b>	2.5	0.50	mg/L		03/15/16 16:50	03/16/16 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 16:50	03/16/16 19:19	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 16:50	03/16/16 19:19	1
<b>Zinc</b>	<b>0.020</b>	<b>J B</b>	0.50	0.020	mg/L		03/15/16 16:50	03/16/16 19:19	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/15/16 16:50	03/16/16 21:57	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 16:50	03/16/16 21:57	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 13:08	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.018	0.0095	mg/Kg	☼	03/09/16 14:00	03/11/16 15:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.20	mg/Kg	☼	03/11/16 14:15	03/11/16 18:38	1
<b>pH</b>	<b>8.33</b>		0.200	0.200	SU			03/09/16 09:12	1

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15)**

**Lab Sample ID: 500-108383-21**

**Date Collected: 03/04/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.020</b>		0.018	0.0034	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Bromoform	<0.0044	*	0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Chlorobenzene	<0.0044	*	0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
cis-1,3-Dichloropropene	<0.0044	*	0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Dibromochloromethane	<0.0044	*	0.0044	0.00051	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Ethylbenzene	<0.0044	*	0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
2-Hexanone	<0.0044	*	0.0044	0.0014	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
4-Methyl-2-pentanone (MIBK)	<0.0044	*	0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Styrene	<0.0044	*	0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,1,1,2-Tetrachloroethane	<0.0044	*	0.0044	0.00070	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Tetrachloroethene	<0.0044	*	0.0044	0.00092	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Toluene	<0.0044	*	0.0044	0.0015	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
trans-1,3-Dichloropropene	<0.0044	*	0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
1,1,2-Trichloroethane	<0.0044	*	0.0044	0.00085	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1
Xylenes, Total	<0.0088	*	0.0088	0.0016	mg/Kg	☼	03/04/16 16:50	03/09/16 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	* X	70 - 122	03/04/16 16:50	03/09/16 10:25	1
Dibromofluoromethane	117		75 - 120	03/04/16 16:50	03/09/16 10:25	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	03/04/16 16:50	03/09/16 10:25	1
Toluene-d8 (Surr)	159	* X	75 - 122	03/04/16 16:50	03/09/16 10:25	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.0064	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Benzo[a]anthracene	<0.036		0.036	0.0048	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15)**

**Lab Sample ID: 500-108383-21**

**Date Collected: 03/04/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0069	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Benzo[b]fluoranthene	<0.036		0.036	0.0077	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
<b>Chrysene</b>	<b>0.035</b>	<b>J</b>	0.036	0.0098	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,4-Dimethylphenol	<0.36	*	0.36	0.14	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Fluoranthene	<0.036		0.036	0.0066	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Fluorene	<0.036		0.036	0.0050	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0093	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15)**

**Lab Sample ID: 500-108383-21**

Date Collected: 03/04/16 12:20

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 88.9

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Pentachlorophenol	<0.72		0.72	0.58	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
<b>Pyrene</b>	<b>0.078</b>		0.036	0.0071	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	03/10/16 07:07	03/11/16 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		25 - 119	03/10/16 07:07	03/11/16 13:17	1
2-Fluorophenol	87		25 - 110	03/10/16 07:07	03/11/16 13:17	1
Nitrobenzene-d5	85		25 - 115	03/10/16 07:07	03/11/16 13:17	1
Phenol-d5	87		31 - 110	03/10/16 07:07	03/11/16 13:17	1
Terphenyl-d14	105		36 - 134	03/10/16 07:07	03/11/16 13:17	1
2,4,6-Tribromophenol	76		35 - 137	03/10/16 07:07	03/11/16 13:17	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95	F1	0.95	0.20	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Arsenic</b>	<b>6.3</b>		0.48	0.22	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Barium</b>	<b>10</b>		0.48	0.087	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Beryllium</b>	<b>0.49</b>		0.19	0.041	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Cadmium</b>	<b>0.14</b>		0.095	0.028	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Chromium</b>	<b>9.7</b>	<b>B</b>	0.48	0.082	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Cobalt</b>	<b>9.3</b>		0.24	0.054	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Copper</b>	<b>33</b>	<b>B</b>	0.48	0.10	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Iron</b>	<b>14000</b>		9.5	3.7	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Lead</b>	<b>20</b>		0.24	0.12	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Magnesium</b>	<b>29000</b>	<b>B</b>	4.8	1.9	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Calcium</b>	<b>60000</b>	<b>F2 B</b>	95	31	mg/Kg	☼	03/09/16 09:30	03/09/16 21:21	10
<b>Manganese</b>	<b>260</b>	<b>B</b>	0.48	0.094	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Nickel</b>	<b>25</b>		0.48	0.13	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Selenium</b>	<b>1.5</b>		0.48	0.24	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Vanadium</b>	<b>13</b>		0.24	0.069	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Zinc</b>	<b>80</b>		0.95	0.30	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Potassium</b>	<b>1200</b>	<b>F1</b>	24	3.9	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1
<b>Sodium</b>	<b>500</b>		48	6.3	mg/Kg	☼	03/09/16 09:30	03/09/16 20:11	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 15:00	03/16/16 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 15:00	03/16/16 19:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 15:00	03/16/16 19:07	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15)**

**Lab Sample ID: 500-108383-21**

**Date Collected: 03/04/16 12:20**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.9**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>260</b>		5.0	0.50	mg/L		03/15/16 15:00	03/16/16 19:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 15:00	03/16/16 19:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 15:00	03/16/16 19:07	1
<b>Magnesium</b>	<b>110</b>		2.5	0.50	mg/L		03/15/16 15:00	03/16/16 19:07	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
<b>Potassium</b>	<b>1.7 J</b>		2.5	0.50	mg/L		03/15/16 15:00	03/16/16 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 15:00	03/16/16 19:07	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:07	1
<b>Zinc</b>	<b>0.029 J B</b>		0.50	0.020	mg/L		03/15/16 15:00	03/16/16 19:07	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.26</b>		0.025	0.010	mg/L		03/16/16 08:28	03/17/16 15:46	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/15/16 15:00	03/16/16 14:48	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 15:00	03/16/16 14:48	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 11:59	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.033</b>	<b>F1 B</b>	0.017	0.0090	mg/Kg	☼	03/09/16 14:00	03/10/16 11:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/11/16 16:30	03/11/16 19:37	1
<b>pH</b>	<b>8.51</b>		0.200	0.200	SU			03/09/16 09:12	1



# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15) Dup**

**Lab Sample ID: 500-108383-22**

**Date Collected: 03/04/16 12:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.018</b>		0.018	0.0034	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	03/04/16 16:50	03/08/16 10:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	03/04/16 16:50	03/08/16 10:36	1
Dibromofluoromethane	106		75 - 120	03/04/16 16:50	03/08/16 10:36	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	03/04/16 16:50	03/08/16 10:36	1
Toluene-d8 (Surr)	108		75 - 122	03/04/16 16:50	03/08/16 10:36	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15) Dup**

**Lab Sample ID: 500-108383-22**

**Date Collected: 03/04/16 12:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
<b>Chrysene</b>	<b>0.020</b>	<b>J</b>	0.035	0.0097	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,4-Dimethylphenol	<0.35	*	0.35	0.13	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15) Dup**

**Lab Sample ID: 500-108383-22**

Date Collected: 03/04/16 12:25

Matrix: Solid

Date Received: 03/04/16 15:40

Percent Solids: 88.5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
<b>Pyrene</b>	<b>0.017</b>	<b>J</b>	0.035	0.0070	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	03/10/16 07:07	03/11/16 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		25 - 119	03/10/16 07:07	03/11/16 13:42	1
2-Fluorophenol	88		25 - 110	03/10/16 07:07	03/11/16 13:42	1
Nitrobenzene-d5	85		25 - 115	03/10/16 07:07	03/11/16 13:42	1
Phenol-d5	88		31 - 110	03/10/16 07:07	03/11/16 13:42	1
Terphenyl-d14	104		36 - 134	03/10/16 07:07	03/11/16 13:42	1
2,4,6-Tribromophenol	68		35 - 137	03/10/16 07:07	03/11/16 13:42	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.29</b>	<b>J</b>	0.96	0.20	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Arsenic</b>	<b>11</b>		0.48	0.22	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Barium</b>	<b>16</b>		0.48	0.088	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Beryllium</b>	<b>0.43</b>		0.19	0.042	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Cadmium</b>	<b>0.19</b>		0.096	0.028	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Chromium</b>	<b>8.4</b>	<b>B</b>	0.48	0.083	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Cobalt</b>	<b>11</b>		0.24	0.054	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Copper</b>	<b>32</b>	<b>B</b>	0.48	0.10	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Iron</b>	<b>16000</b>		9.6	3.7	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Lead</b>	<b>20</b>		0.24	0.12	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Magnesium</b>	<b>32000</b>	<b>B</b>	4.8	2.0	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Calcium</b>	<b>82000</b>	<b>B</b>	96	31	mg/Kg	☼	03/09/16 09:30	03/09/16 21:50	10
<b>Manganese</b>	<b>390</b>	<b>B</b>	0.48	0.095	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Nickel</b>	<b>27</b>		0.48	0.13	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Selenium</b>	<b>0.54</b>		0.48	0.24	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Thallium</b>	<b>0.37</b>	<b>J</b>	0.48	0.24	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Vanadium</b>	<b>13</b>		0.24	0.070	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Zinc</b>	<b>84</b>		0.96	0.30	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Potassium</b>	<b>1200</b>		24	3.9	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1
<b>Sodium</b>	<b>570</b>		48	6.3	mg/Kg	☼	03/09/16 09:30	03/09/16 20:35	1

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	mg/L		03/15/16 15:00	03/16/16 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/15/16 15:00	03/16/16 19:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/15/16 15:00	03/16/16 19:12	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

**Client Sample ID: 2633-17-B03 (10-15) Dup**

**Lab Sample ID: 500-108383-22**

**Date Collected: 03/04/16 12:25**

**Matrix: Solid**

**Date Received: 03/04/16 15:40**

**Percent Solids: 88.5**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>290</b>		5.0	0.50	mg/L		03/15/16 15:00	03/16/16 19:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
Copper	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
Iron	<0.40		0.40	0.20	mg/L		03/15/16 15:00	03/16/16 19:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/15/16 15:00	03/16/16 19:12	1
<b>Magnesium</b>	<b>82</b>		2.5	0.50	mg/L		03/15/16 15:00	03/16/16 19:12	1
<b>Manganese</b>	<b>2.9</b>		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
<b>Potassium</b>	<b>1.6</b>	<b>J</b>	2.5	0.50	mg/L		03/15/16 15:00	03/16/16 19:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/15/16 15:00	03/16/16 19:12	1
Silver	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
Vanadium	<0.025		0.025	0.010	mg/L		03/15/16 15:00	03/16/16 19:12	1
<b>Zinc</b>	<b>0.20</b>	<b>J B</b>	0.50	0.020	mg/L		03/15/16 15:00	03/16/16 19:12	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L		03/16/16 08:28	03/17/16 15:51	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/15/16 15:00	03/16/16 14:52	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		03/15/16 15:00	03/16/16 14:52	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/16/16 16:00	03/17/16 12:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.039</b>	<b>B</b>	0.018	0.0096	mg/Kg	☼	03/09/16 14:00	03/10/16 11:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.17	mg/Kg	☼	03/11/16 16:30	03/11/16 19:38	1
<b>pH</b>	<b>8.18</b>		0.200	0.200	SU			03/15/16 16:30	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108383-2

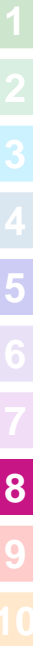
## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) \_\_\_\_\_  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-317-4267  
 Fax: 630-357-1484  
 E-Mail: Matt.Weiss@terracon.com

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108383

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total Inorganics		TCLP Inorganics		PH		SPLP Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other				
Project Name		Lab Project #		Parameter		Parameter		Total Inorganics		TCLP Inorganics		PH		SPLP Inorganics						
Project Location/State		Lab Project #		Sampling		# of Containers		Matrix		Matrix		Matrix		Matrix		Comments				
Sampler		Lab PM		Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix					
<u>Labarge, IL</u>		<u>11157115</u>						<u>VOCS</u>		<u>SVOCs</u>		<u>Total Inorganics</u>		<u>TCLP Inorganics</u>		<u>PH</u>		<u>SPLP Inorganics</u>		
<u>CTK</u>																				
<u>16</u>	<u>2633-17-002 (0-5)</u>	<u>3/4/16</u>	<u>12:50</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>HOLD SPLP Analysis</u>
<u>17</u>	<u>2633-17-002 (5-10)</u>	<u>3/4/16</u>	<u>12:55</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>Analysis</u>
<u>18</u>	<u>2633-17-002 (10-15)</u>	<u>3/4/16</u>	<u>1:00</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
<u>19</u>	<u>2633-17-003 (0-5)</u>	<u>3/4/16</u>	<u>12:10</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
<u>20</u>	<u>2633-17-003 (5-10)</u>	<u>3/4/16</u>	<u>12:15</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
<u>21</u>	<u>2633-17-003 (10-15)</u>	<u>3/4/16</u>	<u>12:20</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
<u>22</u>	<u>2633-17-003 (10-15) Reg</u>	<u>3/4/16</u>	<u>12:25</u>	<u>6</u>	<u>S</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>David Kelly</u>	Company <u>Terracon</u>	Date <u>3/4/16</u>	Time <u>2:30</u>	Received By <u>David Becken</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>14:54</u>
Relinquished By <u>David Becken</u>	Company <u>TA</u>	Date <u>3/4/16</u>	Time <u>15:40</u>	Received By <u>Jim/S</u>	Company <u>TAL</u>	Date <u>03/04/16</u>	Time <u>1540</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: \_\_\_\_\_  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: met IL TACO requirements. P  
Please HOLD SPLP Analysis. Thank you

Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108383-2

**Login Number: 108383**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Kelsey, Shawn M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(3.6)(2.8)(2.0)c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	







Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

LaGrange Road (near US 34 and LaGrange Rd intersection) from IDOT STA 505+20 to 505+40 (ISGS Site 2633-19)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.81793 Longitude: -87.86979  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B01 was sampled adjacent to ISGS Site No 2633-19.  
See Exhibits 2, 2H, and Table 31 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J108249-8. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Michael Roche (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

Company Name: Terracon Consultants, Inc  
 Street Address: 135 Ambassador Drive  
 City: Naperville State: IL Zip Code: 60540  
 Phone: 630-717-4263

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/21/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-19-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		8.8
Barium	mg/kg	---	110	1500		48
Cadmium	mg/kg	---	0.6	5.2		<0.12
Chromium, total	mg/kg	---	16.2	21		20
Lead	mg/kg	---	36	107		16
Mercury	mg/kg	---	0.06	0.1		0.049
Selenium	mg/kg	---	0.48	1.3		<0.59
Silver	mg/kg	---	0.55	4.4		<0.30
Antimony	mg/kg	---	4.0	5		<1.2
Beryllium	mg/kg	---	0.59	22		0.68
Calcium	mg/kg	---	9,300	---		21000
Cobalt	mg/kg	---	8.9	20		16
Copper	mg/kg	---	19.6	2900		29
Cyanide	mg/kg	---	0.51	---		<0.56
Iron	mg/kg	---	15,900	15000		21000
Magnesium	mg/kg	---	4,820	325000		16000
Manganese	mg/kg	---	636	630		450
Nickel	mg/kg	---	18	100		43
Potassium	mg/kg	---	1,268	---		1900
Sodium	mg/kg	---	130	---		1900
Thallium	mg/kg	---	0.32	2.6		0.56
Vanadium	mg/kg	---	25.2	550		22
Zinc	mg/kg	---	95	5100		63
pH			6.25	9		8.43
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		--
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-19-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.27
Cadmium, TCLP	mg/L	---	---	---		<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050
Silver, TCLP	mg/L	---	---	---		<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		280
Cobalt, TCLP	mg/L	---	---	---		<0.025
Copper, TCLP	mg/L	---	---	---		0.025
Cyanide, TCLP	mg/L	---	---	---		---
Iron, TCLP	mg/L	---	---	---		<0.40
Magnesium, TCLP	mg/L	---	---	---		140
Manganese, TCLP	mg/L	---	---	---		0.14
Nickel, TCLP	mg/L	---	---	---		<0.025
Potassium, TCLP	mg/L	---	---	---		2.4
Sodium, TCLP	mg/L	---	---	---		---
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		0.091

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108249-8  
Client Project/Site: IDOT - LaGrange - WO 015

For:  
Terracon Consulting Eng & Scientists  
135 Ambassador Drive  
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:  
3/15/2016 2:21:32 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

**Job ID: 500-108249-8**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108249-8

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

#### GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) for batch 500-325583 was outside the acceptance limits for Vinyl Acetate.

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with 500-325583: Vinyl Acetate. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-19-B01 (2.5-7.5) (500-108249-28) were non-detects for Cadmium, therefore the data has been reported..

Method(s) 6020A: The laboratory control sample (LCS) for prep batch 325785 recovered outside control limits for the following analytes: Antimony at 121%rec.. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The affected samples were: 500-108249-20 through 29

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

**Client Sample ID: 2633-19-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-28**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	8.8		0.59	0.27	mg/Kg	1		☼	6010B	Total/NA
Barium	48		0.59	0.11	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.68		0.24	0.051	mg/Kg	1		☼	6010B	Total/NA
Chromium	20		0.59	0.10	mg/Kg	1		☼	6010B	Total/NA
Cobalt	16		0.30	0.067	mg/Kg	1		☼	6010B	Total/NA
Copper	29		0.59	0.13	mg/Kg	1		☼	6010B	Total/NA
Iron	21000		12	4.6	mg/Kg	1		☼	6010B	Total/NA
Lead	16		0.30	0.15	mg/Kg	1		☼	6010B	Total/NA
Magnesium	16000		5.9	2.4	mg/Kg	1		☼	6010B	Total/NA
Calcium	21000		12	3.8	mg/Kg	1		☼	6010B	Total/NA
Manganese	450		0.59	0.12	mg/Kg	1		☼	6010B	Total/NA
Nickel	43		0.59	0.16	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.56	J	0.59	0.29	mg/Kg	1		☼	6010B	Total/NA
Vanadium	22		0.30	0.087	mg/Kg	1		☼	6010B	Total/NA
Zinc	63		1.2	0.38	mg/Kg	1		☼	6010B	Total/NA
Potassium	1900		30	4.8	mg/Kg	1		☼	6010B	Total/NA
Sodium	1900		59	7.8	mg/Kg	1		☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1			6010B	TCLP
Copper	0.025		0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.091	J	0.50	0.020	mg/L	1			6010B	TCLP
Mercury	0.049		0.020	0.010	mg/Kg	1		☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-28	2633-19-B01 (2.5-7.5)	Solid	03/02/16 16:30	03/03/16 09:15

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1

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

**Client Sample ID: 2633-19-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-28**

**Date Collected: 03/02/16 16:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	03/03/16 12:55	03/05/16 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	03/03/16 12:55	03/05/16 00:44	1
Dibromofluoromethane	117		75 - 120	03/03/16 12:55	03/05/16 00:44	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	03/03/16 12:55	03/05/16 00:44	1
Toluene-d8 (Surr)	107		75 - 122	03/03/16 12:55	03/05/16 00:44	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

**Client Sample ID: 2633-19-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-28**

**Date Collected: 03/02/16 16:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

**Client Sample ID: 2633-19-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-28**

**Date Collected: 03/02/16 16:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/06/16 12:00	03/08/16 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	03/06/16 12:00	03/08/16 18:36	1
2-Fluorophenol	95		25 - 110	03/06/16 12:00	03/08/16 18:36	1
Nitrobenzene-d5	79		25 - 115	03/06/16 12:00	03/08/16 18:36	1
Phenol-d5	95		31 - 110	03/06/16 12:00	03/08/16 18:36	1
Terphenyl-d14	85		36 - 134	03/06/16 12:00	03/08/16 18:36	1
2,4,6-Tribromophenol	72		35 - 137	03/06/16 12:00	03/08/16 18:36	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Arsenic</b>	<b>8.8</b>		0.59	0.27	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Barium</b>	<b>48</b>		0.59	0.11	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Beryllium</b>	<b>0.68</b>		0.24	0.051	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Chromium</b>	<b>20</b>		0.59	0.10	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Cobalt</b>	<b>16</b>		0.30	0.067	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Copper</b>	<b>29</b>		0.59	0.13	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Iron</b>	<b>21000</b>		12	4.6	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Lead</b>	<b>16</b>		0.30	0.15	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Magnesium</b>	<b>16000</b>		5.9	2.4	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Calcium</b>	<b>21000</b>		12	3.8	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Manganese</b>	<b>450</b>		0.59	0.12	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Nickel</b>	<b>43</b>		0.59	0.16	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Thallium</b>	<b>0.56 J</b>		0.59	0.29	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Vanadium</b>	<b>22</b>		0.30	0.087	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Zinc</b>	<b>63</b>		1.2	0.38	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Potassium</b>	<b>1900</b>		30	4.8	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1
<b>Sodium</b>	<b>1900</b>		59	7.8	mg/Kg	☼	03/05/16 12:30	03/07/16 14:23	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
<b>Barium</b>	<b>0.27 J</b>		0.50	0.050	mg/L		03/06/16 11:18	03/08/16 08:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:18	03/08/16 08:22	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/06/16 11:18	03/08/16 08:22	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

**Client Sample ID: 2633-19-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-28**

**Date Collected: 03/02/16 16:30**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 82.3**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>280</b>		5.0	0.50	mg/L		03/06/16 11:18	03/08/16 08:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
<b>Copper</b>	<b>0.025</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 11:18	03/08/16 08:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:18	03/08/16 08:22	1
<b>Magnesium</b>	<b>140</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 08:22	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
<b>Potassium</b>	<b>2.4 J</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 08:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:18	03/08/16 08:22	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
Vanadium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:22	1
<b>Zinc</b>	<b>0.091 J</b>		0.50	0.020	mg/L		03/06/16 11:18	03/08/16 08:22	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/06/16 11:18	03/09/16 22:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/16 11:18	03/09/16 22:47	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/10/16 13:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.049</b>		0.020	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 11:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/09/16 13:45	03/09/16 17:44	1
<b>pH</b>	<b>8.43</b>		0.200	0.200	SU			03/05/16 11:06	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-8

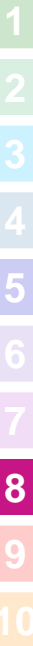
## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: Matt Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-4263  
 Fax: 630-357-9489  
 E-Mail: Matt.Weiss@terracon.com

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108249  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Total 23		Inorganics		pH		SPLP 23		Inorganics		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Matrix		VOCs		SUOCs		Total 23		Inorganics		pH		SPLP 23		
Project Location/State		Lab PM		# of Containers		Matrix		Total 23		Inorganics		pH		SPLP 23		Inorganics		
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix	Total 23		Inorganics		pH		SPLP 23		Inorganics		Comments
		Date	Time															
28		2633-19-001 (2.5-7.5)	3/2/16	4:30	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	HOLD SPLP Analysis

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/3/16</u>	Time <u>820</u>	Received By <u>David Becker</u>	Company <u>TA</u>	Date <u>3-3-16</u>	Time <u>0828</u>
Relinquished By <u>David Becker</u>	Company <u>TA</u>	Date <u>3/3/16</u>	Time <u>0915</u>	Received By <u>David Becker</u>	Company <u>TA-CHI</u>	Date <u>3/3/16</u>	Time <u>0915</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments  
Met IL TAO Requirements & please HOLD SPLP Analysis. Thank you.

Lab Comments:  
 \_\_\_\_\_



# Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-8

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

### I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

LaGrange Road (near US 34 and LaGrange Rd intersection) from IDOT STA 505+35 to 505+55 (ISGS Site 2633-20)

City: LaGrange State: IL Zip Code: 60525

County: Cook Township: Lyons

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.81793 Longitude: -87.86979

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: sam.mead@illinois.gov

Email, if available: sam.mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 330/311-LaGrange Rd at US 34-WO#015A

Latitude: 41.81793 Longitude: -87.86979

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 boring B01 was sampled adjacent to ISGS Site No 2633-20.  
See Exhibits 2, 2H, and Table 33 of the Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J108249-9. Also see Preliminary Site Investigation Report prepared by Terracon dated June 21, 2016. CCDD/USFO facility in MSA County.

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Michael Roche (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

Company Name: Terracon Consultants, Inc  
 Street Address: 135 Ambassador Drive  
 City: Naperville State: IL Zip Code: 60540  
 Phone: 630-717-4263

Michael G. Roche  
 Printed Name:

Michael G. Roche  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

6/22/2016  
 Date:



Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-20-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Inorganic Analytical Parameters</b>						
Arsenic	mg/kg	---	13	11.3		7.5
Barium	mg/kg	---	110	1500		57
Cadmium	mg/kg	---	0.6	5.2		<0.11
Chromium, total	mg/kg	---	16.2	21		17
Lead	mg/kg	---	36	107		14
Mercury	mg/kg	---	0.06	0.1		0.025
Selenium	mg/kg	---	0.48	1.3		<0.57
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		<1.1
Beryllium	mg/kg	---	0.59	22		0.63
Calcium	mg/kg	---	9,300	---		59000
Cobalt	mg/kg	---	8.9	20		12
Copper	mg/kg	---	19.6	2900		23
Cyanide	mg/kg	---	0.51	---		<0.56
Iron	mg/kg	---	15,900	15000		18000
Magnesium	mg/kg	---	4,820	325000		21000
Manganese	mg/kg	---	636	630		300
Nickel	mg/kg	---	18	100		34
Potassium	mg/kg	---	1,268	---		1600
Sodium	mg/kg	---	130	---		2500
Thallium	mg/kg	---	0.32	2.6		0.64
Vanadium	mg/kg	---	25.2	550		20
Zinc	mg/kg	---	95	5100		52
pH			6.25	9		8.65
<b>Inorganic Analytical Parameters (SPLP)</b>						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.41
Mercury,SPLP	mg/L	---	---	---		--
Nickel,SPLP	mg/L	---	---	---		--
Potassium,SPLP	mg/L	---	---	---		--
Selenium,SPLP	mg/L	---	---	---		--
Silver,SPLP	mg/L	---	---	---		--
Sodium,SPLP	mg/L	---	---	---		--
Thallium,SPLP	mg/L	---	---	---		--
Vanadium,SPLP	mg/L	---	---	---		--
Zinc,SPLP	mg/L	---	---	---		--
Cyanide,SPLP	mg/L	---	---	---		--

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2633-20-B01 (2.5-7.5)
				CCDD	Sample Depth (feet)	(2.5-7.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/02/2016
<b>Inorganic Analytical Parameters (TCLP)</b>						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.46
Cadmium, TCLP	mg/L	---	---	---		<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050
Silver, TCLP	mg/L	---	---	---		<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040
Calcium, TCLP	mg/L	---	---	---		510
Cobalt, TCLP	mg/L	---	---	---		<0.025
Copper, TCLP	mg/L	---	---	---		0.021
Cyanide, TCLP	mg/L	---	---	---		---
Iron, TCLP	mg/L	---	---	---		<0.40
Magnesium, TCLP	mg/L	---	---	---		16
Manganese, TCLP	mg/L	---	---	---		0.16
Nickel, TCLP	mg/L	---	---	---		<0.025
Potassium, TCLP	mg/L	---	---	---		2.2
Sodium, TCLP	mg/L	---	---	---		---
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		0.13

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108249-9  
Client Project/Site: IDOT - LaGrange - WO 015

For:  
Terracon Consulting Eng & Scientists  
135 Ambassador Drive  
Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:  
3/15/2016 2:21:57 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

**Job ID: 500-108249-9**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-108249-9

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/3/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.7° C, 3.1° C and 3.3° C.

#### GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) for batch 500-325583 was outside the acceptance limits for Vinyl Acetate.

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with 500-325583: Vinyl Acetate. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The interference check standard solution (ICSA) associated with Analytical batch 500-326031 had results for Cadmium above the reporting limit (RL). Associated samples 2633-20-B01 (2.5-7.5) (500-108249-29) were non-detects for Cadmium, therefore the data has been reported..

Method(s) 6020A: The laboratory control sample (LCS) for prep batch 325785 recovered outside control limits for the following analytes: Antimony at 121%rec.. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The affected samples were: 500-108249-20 through 29

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Detection Summary

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

**Client Sample ID: 2633-20-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-29**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	7.5		0.57	0.26	mg/Kg	1		☼	6010B	Total/NA
Barium	57		0.57	0.10	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.63		0.23	0.050	mg/Kg	1		☼	6010B	Total/NA
Chromium	17		0.57	0.098	mg/Kg	1		☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1		☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1		☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	21000		5.7	2.3	mg/Kg	1		☼	6010B	Total/NA
Calcium	59000	B	110	37	mg/Kg	10		☼	6010B	Total/NA
Manganese	300		0.57	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	34		0.57	0.16	mg/Kg	1		☼	6010B	Total/NA
Thallium	0.64		0.57	0.28	mg/Kg	1		☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1		☼	6010B	Total/NA
Zinc	52		1.1	0.36	mg/Kg	1		☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1		☼	6010B	Total/NA
Sodium	2500		57	7.6	mg/Kg	1		☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1			6010B	TCLP
Calcium	510		5.0	0.50	mg/L	1			6010B	TCLP
Copper	0.021	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	16		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.025		0.019	0.010	mg/Kg	1		☼	7471B	Total/NA
pH	8.65		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Sample Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108249-29	2633-20-B01 (2.5-7.5)	Solid	03/02/16 17:00	03/03/16 09:15

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1

2

3

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# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

**Client Sample ID: 2633-20-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-29**

**Date Collected: 03/02/16 17:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/03/16 12:55	03/05/16 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/03/16 12:55	03/05/16 01:34	1
Dibromofluoromethane	104		75 - 120	03/03/16 12:55	03/05/16 01:34	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	03/03/16 12:55	03/05/16 01:34	1
Toluene-d8 (Surr)	105		75 - 122	03/03/16 12:55	03/05/16 01:34	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

**Client Sample ID: 2633-20-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-29**

**Date Collected: 03/02/16 17:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

**Client Sample ID: 2633-20-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-29**

**Date Collected: 03/02/16 17:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/06/16 12:00	03/08/16 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	03/06/16 12:00	03/08/16 19:05	1
2-Fluorophenol	81		25 - 110	03/06/16 12:00	03/08/16 19:05	1
Nitrobenzene-d5	71		25 - 115	03/06/16 12:00	03/08/16 19:05	1
Phenol-d5	79		31 - 110	03/06/16 12:00	03/08/16 19:05	1
Terphenyl-d14	81		36 - 134	03/06/16 12:00	03/08/16 19:05	1
2,4,6-Tribromophenol	66		35 - 137	03/06/16 12:00	03/08/16 19:05	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Arsenic</b>	<b>7.5</b>		0.57	0.26	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Barium</b>	<b>57</b>		0.57	0.10	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Beryllium</b>	<b>0.63</b>		0.23	0.050	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Chromium</b>	<b>17</b>		0.57	0.098	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Cobalt</b>	<b>12</b>		0.29	0.065	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Copper</b>	<b>23</b>		0.57	0.12	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Iron</b>	<b>18000</b>		11	4.4	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Lead</b>	<b>14</b>		0.29	0.14	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Magnesium</b>	<b>21000</b>		5.7	2.3	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Calcium</b>	<b>59000</b>	<b>B</b>	110	37	mg/Kg	☼	03/05/16 12:30	03/07/16 16:04	10
<b>Manganese</b>	<b>300</b>		0.57	0.11	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Nickel</b>	<b>34</b>		0.57	0.16	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Thallium</b>	<b>0.64</b>		0.57	0.28	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Vanadium</b>	<b>20</b>		0.29	0.084	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Zinc</b>	<b>52</b>		1.1	0.36	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Potassium</b>	<b>1600</b>		29	4.7	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1
<b>Sodium</b>	<b>2500</b>		57	7.6	mg/Kg	☼	03/05/16 12:30	03/07/16 14:28	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		03/06/16 11:18	03/08/16 08:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/16 11:18	03/08/16 08:28	1
Cadmium	<0.0050	<b>^</b>	0.0050	0.0020	mg/L		03/06/16 11:18	03/08/16 08:28	1

TestAmerica Chicago

# Client Sample Results

Client: Terracon Consulting Eng & Scientists  
 Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

**Client Sample ID: 2633-20-B01 (2.5-7.5)**

**Lab Sample ID: 500-108249-29**

**Date Collected: 03/02/16 17:00**

**Matrix: Solid**

**Date Received: 03/03/16 09:15**

**Percent Solids: 84.0**

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>510</b>		5.0	0.50	mg/L		03/06/16 11:18	03/08/16 08:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
Iron	<0.40		0.40	0.20	mg/L		03/06/16 11:18	03/08/16 08:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/16 11:18	03/08/16 08:28	1
<b>Magnesium</b>	<b>16</b>		2.5	0.50	mg/L		03/06/16 11:18	03/08/16 08:28	1
<b>Manganese</b>	<b>0.16</b>		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
<b>Potassium</b>	<b>2.2</b>	<b>J</b>	2.5	0.50	mg/L		03/06/16 11:18	03/08/16 08:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/16 11:18	03/08/16 08:28	1
Silver	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
Vanadium	<0.025		0.025	0.010	mg/L		03/06/16 11:18	03/08/16 08:28	1
<b>Zinc</b>	<b>0.13</b>	<b>J</b>	0.50	0.020	mg/L		03/06/16 11:18	03/08/16 08:28	1

**Method: 6010B - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		03/06/16 11:32	03/09/16 07:01	1

**Method: 6020A - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		03/06/16 11:18	03/09/16 22:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/16 11:18	03/09/16 22:48	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/07/16 15:00	03/10/16 13:41	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.025</b>		0.019	0.010	mg/Kg	☼	03/04/16 17:00	03/07/16 11:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	03/09/16 13:45	03/09/16 17:44	1
<b>pH</b>	<b>8.65</b>		0.200	0.200	SU			03/05/16 11:08	1

# Definitions/Glossary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Terracon Consulting Eng & Scientists  
Project/Site: IDOT - LaGrange - WO 015

TestAmerica Job ID: 500-108249-9

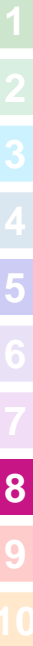
## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: Math Weiss  
 Company: Terracon  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 630-717-9263  
 Fax: 630-357-9494  
 E-Mail: math.weiss@terracon.com

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-108249  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
Project Name		Lab Project #																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab PM																	
Sampler																			
Lab ID	I/S/MSD	Sample ID		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 23 Inorganics	TCLP 23 Inorganics	PH	SPLP 23 Inorganics	Comments					
		Date	Time																
29		2633-20-B01 (2.5-7.5)		3/2/16	5:00	6	S	✓	✓	✓	✓	✓		HOLD SPLP Analysis					

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Chad Kelly</u> Company: <u>Terracon</u> Date: <u>3/3/16</u> Time: <u>8:20</u>	Received By <u>David Becker TA</u> Company: <u>TA</u> Date: <u>3/3/16</u> Time: <u>0828</u>
Relinquished By <u>David Becker TA</u> Company: <u>TA</u> Date: <u>3/3/16</u> Time: <u>0915</u>	Received By <u>Shawn Scott TA-CH</u> Company: <u>TA-CH</u> Date: <u>3/3/16</u> Time: <u>0915</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments  
met in TAID requirements & please hold SPLP analysis. Thank you.

Lab Comments:  
 \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-108249-9

**Login Number: 108249**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.1,3.3,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

