



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9000 - 9200 block of US 41

City: Crystal Lake State: IL Zip Code: 60012

County: McHenry Township: Dorr

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

Latitude: 42.26090 Longitude: -88.37253

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.26090 Longitude: -88.37253

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)]:

LOCATIONS 915-B1-B01, -B02, -B04, -B06, -B07, -B10, -B11, AND -B13 THROUGH -B15 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-1. SEE FIGURES 13, 14, 15 AND 16 AND TABLE 5a OF REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44301-1 AND 500-44345-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBERS: 13111395 AND 13091079.

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

7/8/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-1  
Agricultural Fields**

Sample ID	915B-1-B01	915B-1-B02	915B-1-B04	915B-1-B06	915B-1-B07	915B-1-B10	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-3.5	0-3.5	0-3.5	0-3.5	0-3.5	0-3.5						
Sample Date	2/15/2012	2/16/2012	2/16/2012	2/16/2012	2/15/2012	2/15/2012						
PID	0	0	0	0	0	0						
Sample pH	7.2	7.88	8.25	7.92	6.97	7.55						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

Sample ID	915B-1-B10 DUF	915B-1-B11	915B-1-B13	915B-1-B14	915B-1-B15	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-3.5	0-3.5	0-3.5	0-3.5	0-3.5						
Sample Date	2/15/2012	2/15/2012	2/15/2012	2/15/2012	2/15/2012						
PID	0	0	0	0	0						
Sample pH	8.01	7.09	7.04	6.59	7.61						
Matrix	Soil	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

# 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: 500-44345-1

TestAmerica Sample Delivery Group: 500-44345-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/20/2012 9:42:48 AM

Richard Wright

Project Manager II

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

### LINKS

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results through  
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Have a Question?

 **Ask  
The  
Expert**

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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B06**

**Lab Sample ID: 500-44345-1**

Date Collected: 02/16/12 08:30

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Bromodichloromethane	<0.0047		0.0047	0.00072	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Bromoform	<0.0047		0.0047	0.00077	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Carbon disulfide	<0.0047 *		0.0047	0.00067	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Chlorobenzene	<0.0047		0.0047	0.00075	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Chloroethane	<0.0047 *		0.0047	0.0010	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Chloroform	<0.0047		0.0047	0.00087	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Chloromethane	<0.0047		0.0047	0.00078	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Ethylbenzene	<0.0047		0.0047	0.00071	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00081	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00071	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Styrene	<0.0047		0.0047	0.00060	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Tetrachloroethene	<0.0047		0.0047	0.00090	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Toluene	<0.0047		0.0047	0.00092	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1
Xylenes, Total	<0.0095		0.0095	0.00066	mg/Kg	☼	02/16/12 08:30	02/21/12 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/16/12 08:30	02/21/12 10:38	1
Dibromofluoromethane	91		69 - 120	02/16/12 08:30	02/21/12 10:38	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/16/12 08:30	02/21/12 10:38	1
Toluene-d8 (Surr)	88		69 - 122	02/16/12 08:30	02/21/12 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B06**

**Lab Sample ID: 500-44345-1**

**Date Collected: 02/16/12 08:30**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B06**

**Lab Sample ID: 500-44345-1**

Date Collected: 02/16/12 08:30

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	46		27 - 113	02/21/12 18:14	02/24/12 19:42	1
2-Fluorophenol	43		30 - 110	02/21/12 18:14	02/24/12 19:42	1
Nitrobenzene-d5	37		22 - 110	02/21/12 18:14	02/24/12 19:42	1
Phenol-d5	32		26 - 112	02/21/12 18:14	02/24/12 19:42	1
Terphenyl-d14	64		33 - 129	02/21/12 18:14	02/24/12 19:42	1
2,4,6-Tribromophenol	70		30 - 137	02/21/12 18:14	02/24/12 19:42	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 01:48	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.010	mg/L		02/23/12 16:00	02/25/12 01:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 01:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 01:48	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:48	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 01:48	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:48	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 18:49	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 01:48	1
Zinc	<0.10		0.10	0.020	mg/L		02/23/12 16:00	02/25/12 01:48	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 01:48	1
Boron	<0.10		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 01:48	1
<b>Manganese</b>	<b>0.031</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:48	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 01:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Arsenic</b>	<b>6.6</b>		0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Barium</b>	<b>110</b>		0.59	0.033	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Beryllium</b>	<b>0.85</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Chromium</b>	<b>16</b>		0.59	0.050	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Copper</b>	<b>13</b>	<b>B</b>	0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Lead</b>	<b>12</b>		0.30	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Nickel</b>	<b>16</b>	<b>B</b>	0.59	0.039	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Selenium</b>	<b>0.22</b>	<b>J</b>	0.59	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Thallium</b>	<b>0.27</b>	<b>J</b>	0.59	0.20	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Zinc</b>	<b>44</b>	<b>B</b>	1.2	0.095	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Sodium</b>	<b>650</b>	<b>B</b>	59	3.0	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Potassium</b>	<b>1100</b>		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
<b>Calcium</b>	<b>4900</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B06**

**Lab Sample ID: 500-44345-1**

Date Collected: 02/16/12 08:30

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000	B	12	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
Vanadium	32		0.30	0.028	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
Magnesium	4200	B	5.9	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
Boron	2.9	J	3.0	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
Manganese	650	E	0.59	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1
Cobalt	8.2		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 00:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:15	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0059	mg/Kg	☼	02/21/12 10:55	02/21/12 12:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			02/23/12 11:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B02**

**Lab Sample ID: 500-44345-2**

Date Collected: 02/16/12 09:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Bromodichloromethane	<0.0047		0.0047	0.00072	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Bromoform	<0.0047		0.0047	0.00076	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Carbon disulfide	<0.0047 *		0.0047	0.00067	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Chloroethane	<0.0047 *		0.0047	0.00099	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Chloroform	<0.0047		0.0047	0.00087	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Ethylbenzene	<0.0047		0.0047	0.00071	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00071	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/16/12 09:00	02/21/12 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/16/12 09:00	02/21/12 11:06	1
Dibromofluoromethane	96		69 - 120	02/16/12 09:00	02/21/12 11:06	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 120	02/16/12 09:00	02/21/12 11:06	1
Toluene-d8 (Surr)	89		69 - 122	02/16/12 09:00	02/21/12 11:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Acenaphthylene	<0.037		0.037	0.0095	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B02**

**Lab Sample ID: 500-44345-2**

**Date Collected: 02/16/12 09:00**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.0098	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B02**

**Lab Sample ID: 500-44345-2**

**Date Collected: 02/16/12 09:00**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		27 - 113	02/21/12 18:14	02/24/12 20:02	1
2-Fluorophenol	50		30 - 110	02/21/12 18:14	02/24/12 20:02	1
Nitrobenzene-d5	50		22 - 110	02/21/12 18:14	02/24/12 20:02	1
Phenol-d5	52		26 - 112	02/21/12 18:14	02/24/12 20:02	1
Terphenyl-d14	85		33 - 129	02/21/12 18:14	02/24/12 20:02	1
2,4,6-Tribromophenol	93		30 - 137	02/21/12 18:14	02/24/12 20:02	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 01:54	1
<b>Barium</b>	<b>0.51</b>		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 01:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 01:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 01:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:54	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:54	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 01:54	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:54	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 18:55	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 01:54	1
<b>Zinc</b>	<b>0.056 J</b>		0.10	0.020	mg/L		02/23/12 16:00	02/25/12 01:54	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 01:54	1
<b>Boron</b>	<b>0.17</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 01:54	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 01:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 01:54	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Arsenic</b>	<b>5.4</b>		0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Barium</b>	<b>130</b>		0.59	0.033	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Beryllium</b>	<b>0.83</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Chromium</b>	<b>14</b>		0.59	0.050	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Copper</b>	<b>11 B</b>		0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Lead</b>	<b>11</b>		0.30	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Nickel</b>	<b>17 B</b>		0.59	0.039	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Thallium</b>	<b>0.24 J</b>		0.59	0.20	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Zinc</b>	<b>35 B</b>		1.2	0.095	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Sodium</b>	<b>490 B</b>		59	3.0	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Potassium</b>	<b>950</b>		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
<b>Calcium</b>	<b>2200 B</b>		12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
 SDG: 500-44345-1

**Client Sample ID: 915B-1-B02**

**Lab Sample ID: 500-44345-2**

Date Collected: 02/16/12 09:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000	B	12	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Vanadium	29		0.30	0.028	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Magnesium	2500	B	5.9	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Boron	2.3	J	3.0	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Manganese	990	E	0.59	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1
Cobalt	9.6		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 00:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:30	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.0061	mg/Kg	☼	02/21/12 10:55	02/21/12 12:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			02/23/12 11:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B04**

**Lab Sample ID: 500-44345-3**

Date Collected: 02/16/12 08:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Bromoform	<0.0046		0.0046	0.00074	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Carbon disulfide	<0.0046	*	0.0046	0.00065	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Chloroethane	<0.0046	*	0.0046	0.00096	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/16/12 08:45	02/21/12 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		67 - 120	02/16/12 08:45	02/21/12 11:31	1
Dibromofluoromethane	93		69 - 120	02/16/12 08:45	02/21/12 11:31	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 120	02/16/12 08:45	02/21/12 11:31	1
Toluene-d8 (Surr)	89		69 - 122	02/16/12 08:45	02/21/12 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B04**

**Lab Sample ID: 500-44345-3**

Date Collected: 02/16/12 08:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Benzo[k]fluoranthene	<0.040	*	0.040	0.0095	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.12</b>	<b>J</b>	0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B04**

**Lab Sample ID: 500-44345-3**

Date Collected: 02/16/12 08:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		27 - 113	02/21/12 18:14	02/24/12 20:22	1
2-Fluorophenol	63		30 - 110	02/21/12 18:14	02/24/12 20:22	1
Nitrobenzene-d5	50		22 - 110	02/21/12 18:14	02/24/12 20:22	1
Phenol-d5	45		26 - 112	02/21/12 18:14	02/24/12 20:22	1
Terphenyl-d14	73		33 - 129	02/21/12 18:14	02/24/12 20:22	1
2,4,6-Tribromophenol	77		30 - 137	02/21/12 18:14	02/24/12 20:22	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 02:01	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.010	mg/L		02/23/12 16:00	02/25/12 02:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 02:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 02:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:01	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 02:01	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:01	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:01	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:01	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 02:01	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 02:01	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 02:01	1
<b>Manganese</b>	<b>0.030</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:01	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Arsenic</b>	<b>6.9</b>		0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Barium</b>	<b>90</b>		0.59	0.033	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Beryllium</b>	<b>0.83</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Chromium</b>	<b>17</b>		0.59	0.051	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Copper</b>	<b>16</b>	<b>B</b>	0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Lead</b>	<b>9.3</b>		0.30	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Nickel</b>	<b>20</b>	<b>B</b>	0.59	0.039	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.59	0.20	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Zinc</b>	<b>38</b>	<b>B</b>	1.2	0.095	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Sodium</b>	<b>540</b>	<b>B</b>	59	3.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Potassium</b>	<b>890</b>		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
<b>Calcium</b>	<b>1900</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-1-B04**

**Lab Sample ID: 500-44345-3**

Date Collected: 02/16/12 08:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 80.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000	B	12	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Vanadium	31		0.30	0.029	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Magnesium	2600	B	5.9	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Boron	2.6	J	3.0	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Manganese	570		0.59	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1
Cobalt	7.4		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:32	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0056	mg/Kg	☼	02/21/12 10:55	02/21/12 12:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			02/23/12 11:38	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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

### GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the 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.
E	Result exceeded calibration range.
L	A negative instrument reading had an absolute value greater than the reporting limit
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than 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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> RTE 14	<b>COC No.:</b> 1 of 2
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>Lab Job No.:</b> 506-44345 <b>Sample Temp:</b> (26) (23)

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-1-B06	2/16/12	8:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
2	915B-1-B02	2/16	9:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
3	915B-1-B04	2/16	8:45	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
4	915B-3-B01	2/16	9:20	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
5	915B-3-B02	2/16	9:40	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
6	915B-6-B01-1	2/16	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-5'
7	915B-6-B01-2	2/16	11:00	S	✓	✓					✓	✓	✓	✓	✓	5-9.5'
8	915B-6-B02-1	2/16	12:30	S	✓	✓					✓	✓	✓	✓	✓	0-5'
9	915B-6-B02-2	2/16	1:00	S	✓	✓					✓	✓	✓	✓	✓	5-9.5'
10	915B-7-B01	2/16/12	1:20	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
11	915B-7-B03	2/16	1:45	S	✓	✓					✓	✓	✓	✓	✓	0-6.5'
12	915B-7-B03N/A	2/16	2:15	S	✓	✓					✓	✓	✓	✓	✓	0-6.5'
Relinquished by: <i>Chad</i>					Received by: <i>Chad</i>										Date/Time: 2/16/12 16:15	
Relinquished by: <i>Colleen</i>					Received by: <i>Chad</i>										Date/Time: 2/16/12 17:30	
Relinquished by:					Received by:										Date/Time:	



## CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com			<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericairc.com			Project Name: RFE 14 Project No.: IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 6 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: 2 of 2 Lab Job No.: 500-49345 Sample Temp:									
<b>SPECIAL INSTRUCTIONS:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.																	
<b>ANALYSES</b>					<b>Matrix Key:</b> W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments	Date/Time
13	915B-7-B05	2/16/12	2:40	S	✓	✓					✓	✓	✓	✓		0-9.5'	2/17/12
14	915B-7-B06	2/16	3:00	S	✓	✓					✓	✓	✓	✓		0-9.5'	2/17/12
15	915B-7-B07	2/16	3:20	S	✓	✓					✓	✓	✓	✓		0-9.5'	2/17/12
16	915B-11-B03-1	2/16	3:45	S	✓	✓					✓	✓	✓	✓		0-4'	2/17/12
17	915B-11-B03-2	2/16	4:00	S	✓	✓					✓	✓	✓	✓		4-6.5'	2/17/12
Relinquished by: <i>Colleen Grey</i>					Date/Time: 2/16/12 16:15			Received by: <i>J.A.</i>					Date/Time: 2/16/12				
Relinquished by: <i>J.A.</i>					Date/Time: 2/16/12 17:30			Received by: <i>J.A.</i>					Date/Time: 2/17/12 10:00				
Relinquished by:					Date/Time:			Received by:					Date/Time:				

# 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: 500-44301-1

TestAmerica Sample Delivery Group: 500-44301-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/19/2012 3:07:06 PM

Richard Wright

Project Manager II

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

### LINKS

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results through  
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Have a Question?



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

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B01**

**Lab Sample ID: 500-44301-1**

Date Collected: 02/15/12 10:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Bromodichloromethane	<0.0047	*	0.0047	0.00071	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Carbon disulfide	<0.0047	*	0.0047	0.00067	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/15/12 10:00	02/21/12 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		67 - 120	02/15/12 10:00	02/21/12 01:06	1
Dibromofluoromethane	108		69 - 120	02/15/12 10:00	02/21/12 01:06	1
1,2-Dichloroethane-d4 (Surr)	115		69 - 120	02/15/12 10:00	02/21/12 01:06	1
Toluene-d8 (Surr)	110		69 - 122	02/15/12 10:00	02/21/12 01:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Acenaphthylene	<0.037		0.037	0.0094	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Benzo[a]pyrene	<0.041	*	0.041	0.0075	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Benzo[b]fluoranthene	<0.041	*	0.041	0.0080	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B01**

**Lab Sample ID: 500-44301-1**

**Date Collected: 02/15/12 10:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.0098	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Di-n-octyl phthalate	<0.21	*	0.21	0.083	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B01**

**Lab Sample ID: 500-44301-1**

**Date Collected: 02/15/12 10:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		27 - 113	02/20/12 17:23	02/24/12 01:45	1
2-Fluorophenol	74		30 - 110	02/20/12 17:23	02/24/12 01:45	1
Nitrobenzene-d5	74		22 - 110	02/20/12 17:23	02/24/12 01:45	1
Phenol-d5	67		26 - 112	02/20/12 17:23	02/24/12 01:45	1
Terphenyl-d14	104		33 - 129	02/20/12 17:23	02/24/12 01:45	1
2,4,6-Tribromophenol	93		30 - 137	02/20/12 17:23	02/24/12 01:45	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 18:18	1
<b>Barium</b>	<b>0.50</b>		0.50	0.010	mg/L		02/22/12 15:45	02/23/12 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 18:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 18:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:18	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 18:18	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:18	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 18:18	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 18:18	1
Zinc	<0.10		0.10	0.020	mg/L		02/22/12 15:45	02/23/12 18:18	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 18:18	1
Boron	<0.10		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 18:18	1
Manganese	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 18:18	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Arsenic</b>	<b>7.6</b>		0.60	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Barium</b>	<b>120</b>		0.60	0.033	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Beryllium</b>	<b>0.84</b>		0.24	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Cadmium</b>	<b>0.030</b>	<b>J</b>	0.12	0.016	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Chromium</b>	<b>18</b>		0.60	0.051	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Copper</b>	<b>15</b>		0.60	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Lead</b>	<b>11</b>		0.30	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Nickel</b>	<b>17</b>		0.60	0.039	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.60	0.17	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
Silver	<0.30		0.30	0.038	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Thallium</b>	<b>0.27</b>	<b>J</b>	0.60	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Zinc</b>	<b>41</b>	<b>B</b>	1.2	0.095	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Sodium</b>	<b>71</b>	<b>B</b>	60	3.1	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Potassium</b>	<b>950</b>		30	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
<b>Calcium</b>	<b>2100</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B01**

**Lab Sample ID: 500-44301-1**

Date Collected: 02/15/12 10:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000	B	12	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
Vanadium	34		0.30	0.029	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
Magnesium	3200	B	6.0	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
Boron	2.3	J	3.0	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
Manganese	490		0.60	0.025	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1
Cobalt	7.9		0.30	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 12:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.0062	mg/Kg	☼	02/20/12 11:00	02/20/12 13:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.20		0.200	0.200	SU			02/21/12 18:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B07**

**Lab Sample ID: 500-44301-4**

**Date Collected: 02/15/12 10:45**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0025	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Benzene	<0.0052		0.0052	0.00056	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Bromodichloromethane	<0.0052	*	0.0052	0.00079	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Bromoform	<0.0052	*	0.0052	0.00084	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Bromomethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
2-Butanone (MEK)	<0.0052		0.0052	0.0011	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Carbon disulfide	<0.0052	*	0.0052	0.00074	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Chlorobenzene	<0.0052		0.0052	0.00082	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Chloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Chloroform	<0.0052		0.0052	0.00095	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Chloromethane	<0.0052		0.0052	0.00085	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00076	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00059	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Dibromochloromethane	<0.0052		0.0052	0.00071	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,2-Dichloroethane	<0.0052		0.0052	0.00053	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,1-Dichloroethene	<0.0052		0.0052	0.00082	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,2-Dichloropropane	<0.0052		0.0052	0.0012	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00059	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Ethylbenzene	<0.0052		0.0052	0.00078	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
2-Hexanone	<0.0052		0.0052	0.00074	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.00088	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00078	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Styrene	<0.0052		0.0052	0.00065	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Tetrachloroethene	<0.0052		0.0052	0.00098	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Toluene	<0.0052		0.0052	0.0010	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00099	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00069	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Trichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Vinyl chloride	<0.0052		0.0052	0.00072	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1
Xylenes, Total	<0.010		0.010	0.00072	mg/Kg	☼	02/15/12 10:45	02/21/12 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		67 - 120	02/15/12 10:45	02/21/12 02:24	1
Dibromofluoromethane	103		69 - 120	02/15/12 10:45	02/21/12 02:24	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 120	02/15/12 10:45	02/21/12 02:24	1
Toluene-d8 (Surr)	110		69 - 122	02/15/12 10:45	02/21/12 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Acenaphthylene	<0.038		0.038	0.0096	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Benzo[a]pyrene	<0.041	*	0.041	0.0076	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Benzo[b]fluoranthene	<0.041	*	0.041	0.0081	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B07**

**Lab Sample ID: 500-44301-4**

**Date Collected: 02/15/12 10:45**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.010	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Chrysene	<0.041		0.041	0.0094	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Di-n-octyl phthalate	<0.21	*	0.21	0.085	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Fluorene	<0.041		0.041	0.0095	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
3-Nitroaniline	<0.41		0.41	0.081	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
4-Nitroaniline	<0.41		0.41	0.086	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B07**

**Lab Sample ID: 500-44301-4**

Date Collected: 02/15/12 10:45

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Phenol	<0.21		0.21	0.066	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		27 - 113	02/20/12 17:23	02/24/12 03:00	1
2-Fluorophenol	73		30 - 110	02/20/12 17:23	02/24/12 03:00	1
Nitrobenzene-d5	71		22 - 110	02/20/12 17:23	02/24/12 03:00	1
Phenol-d5	68		26 - 112	02/20/12 17:23	02/24/12 03:00	1
Terphenyl-d14	79		33 - 129	02/20/12 17:23	02/24/12 03:00	1
2,4,6-Tribromophenol	66		30 - 137	02/20/12 17:23	02/24/12 03:00	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 18:37	1
<b>Barium</b>	<b>0.57</b>		0.50	0.010	mg/L		02/22/12 15:45	02/23/12 18:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 18:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 18:37	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:37	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 18:37	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:37	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 18:37	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 18:37	1
<b>Zinc</b>	<b>0.025 J</b>		0.10	0.020	mg/L		02/22/12 15:45	02/23/12 18:37	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 18:37	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 18:37	1
<b>Manganese</b>	<b>0.018 J</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 18:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 18:37	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.13	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Arsenic</b>	<b>5.9</b>		0.58	0.081	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Barium</b>	<b>100</b>		0.58	0.033	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Beryllium</b>	<b>0.67</b>		0.23	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Cadmium</b>	<b>0.15</b>		0.12	0.016	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Chromium</b>	<b>13</b>		0.58	0.049	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Copper</b>	<b>9.8</b>		0.58	0.081	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Lead</b>	<b>14</b>		0.29	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Nickel</b>	<b>17</b>		0.58	0.038	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Selenium</b>	<b>0.33 J</b>		0.58	0.16	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
Silver	<0.29		0.29	0.037	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Thallium</b>	<b>0.38 J</b>		0.58	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Zinc</b>	<b>63 B</b>		1.2	0.093	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Sodium</b>	<b>66 B</b>		58	3.0	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Potassium</b>	<b>750</b>		29	1.7	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
<b>Calcium</b>	<b>1700 B</b>		12	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B07**

**Lab Sample ID: 500-44301-4**

Date Collected: 02/15/12 10:45

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 79.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000	B	12	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
Vanadium	25		0.29	0.028	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
Magnesium	2200	B	5.8	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
Boron	1.7	J	2.9	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
Manganese	680	E	0.58	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1
Cobalt	7.5		0.29	0.023	mg/Kg	☼	02/17/12 09:11	02/22/12 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 12:42	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0058	mg/Kg	☼	02/20/12 11:00	02/20/12 13:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.97		0.200	0.200	SU			02/21/12 19:13	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B11**

**Lab Sample ID: 500-44301-6**

**Date Collected: 02/15/12 11:15**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Bromodichloromethane	<0.0046	*	0.0046	0.00070	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Carbon disulfide	<0.0046	*	0.0046	0.00065	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
<b>Methylene Chloride</b>	<b>0.0075</b>		0.0046	0.0013	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/15/12 11:15	02/21/12 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		67 - 120	02/15/12 11:15	02/21/12 03:13	1
Dibromofluoromethane	107		69 - 120	02/15/12 11:15	02/21/12 03:13	1
1,2-Dichloroethane-d4 (Surr)	110		69 - 120	02/15/12 11:15	02/21/12 03:13	1
Toluene-d8 (Surr)	108		69 - 122	02/15/12 11:15	02/21/12 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Benzo[a]pyrene	<0.039	*	0.039	0.0072	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Benzo[b]fluoranthene	<0.039	*	0.039	0.0077	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B11**

**Lab Sample ID: 500-44301-6**

**Date Collected: 02/15/12 11:15**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 81.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0095	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Di-n-octyl phthalate	<0.20	*	0.20	0.081	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B11**

**Lab Sample ID: 500-44301-6**

Date Collected: 02/15/12 11:15

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		27 - 113	02/20/12 17:23	02/24/12 03:49	1
2-Fluorophenol	81		30 - 110	02/20/12 17:23	02/24/12 03:49	1
Nitrobenzene-d5	80		22 - 110	02/20/12 17:23	02/24/12 03:49	1
Phenol-d5	75		26 - 112	02/20/12 17:23	02/24/12 03:49	1
Terphenyl-d14	86		33 - 129	02/20/12 17:23	02/24/12 03:49	1
2,4,6-Tribromophenol	79		30 - 137	02/20/12 17:23	02/24/12 03:49	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:22	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 19:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 19:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:22	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 19:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:22	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:22	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:22	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 19:22	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 19:22	1
<b>Boron</b>	<b>2.0</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 19:22	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:22	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:22	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.13	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Arsenic</b>	<b>7.5</b>		0.58	0.081	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Barium</b>	<b>37</b>		0.58	0.032	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Cadmium</b>	<b>0.27</b>		0.12	0.016	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Chromium</b>	<b>8.2</b>		0.58	0.049	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Copper</b>	<b>17</b>		0.58	0.081	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Lead</b>	<b>6.4</b>		0.29	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Nickel</b>	<b>10</b>		0.58	0.038	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Selenium	<0.58		0.58	0.16	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Silver	<0.29		0.29	0.036	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Thallium	<0.58		0.58	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Zinc</b>	<b>25</b>	<b>B</b>	1.2	0.093	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Sodium</b>	<b>180</b>	<b>B</b>	58	3.0	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Potassium</b>	<b>1100</b>		29	1.7	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
<b>Calcium</b>	<b>56000</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B11**

**Lab Sample ID: 500-44301-6**

Date Collected: 02/15/12 11:15

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 81.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14000	B	12	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Vanadium	27		0.29	0.028	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Magnesium	36000	B	5.8	1.0	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Boron	5.9		2.9	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Manganese	350		0.58	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1
Cobalt	4.2		0.29	0.023	mg/Kg	☼	02/17/12 09:11	02/22/12 04:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 12:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0056	mg/Kg	☼	02/20/12 11:00	02/20/12 13:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.09		0.200	0.200	SU			02/21/12 19:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B15**

**Lab Sample ID: 500-44301-7**

**Date Collected: 02/15/12 12:30**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Bromodichloromethane	<0.0049	*	0.0049	0.00074	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Carbon disulfide	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/15/12 12:30	02/21/12 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		67 - 120	02/15/12 12:30	02/21/12 03:39	1
Dibromofluoromethane	109		69 - 120	02/15/12 12:30	02/21/12 03:39	1
1,2-Dichloroethane-d4 (Surr)	117		69 - 120	02/15/12 12:30	02/21/12 03:39	1
Toluene-d8 (Surr)	110		69 - 122	02/15/12 12:30	02/21/12 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Acenaphthylene	<0.039		0.039	0.0098	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Anthracene	<0.042		0.042	0.010	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Benzo[a]anthracene	<0.042		0.042	0.0089	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Benzo[a]pyrene	<0.042	*	0.042	0.0078	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Benzo[b]fluoranthene	<0.042	*	0.042	0.0083	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B15**

**Lab Sample ID: 500-44301-7**

**Date Collected: 02/15/12 12:30**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Benzo[k]fluoranthene	<0.042	*	0.042	0.010	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.057	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Carbazole	<0.21		0.21	0.060	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
4-Chloroaniline	<0.86		0.86	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2-Chloronaphthalene	<0.21		0.21	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2-Chlorophenol	<0.21		0.21	0.061	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.067	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Chrysene	<0.042		0.042	0.0096	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
1,2-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
1,3-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
1,4-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.036	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Di-n-butyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,4-Dinitrophenol	<0.86		0.86	0.22	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,6-Dinitrotoluene	<0.21		0.21	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Di-n-octyl phthalate	<0.21	*	0.21	0.087	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Fluorene	<0.042		0.042	0.0097	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Hexachlorobenzene	<0.086		0.086	0.0084	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Hexachlorobutadiene	<0.21		0.21	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Hexachlorocyclopentadiene	<0.86		0.86	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Hexachloroethane	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2-Methylphenol	<0.21		0.21	0.057	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
3 & 4 Methylphenol	<0.21		0.21	0.081	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Naphthalene	<0.042		0.042	0.0082	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2-Nitroaniline	<0.21		0.21	0.077	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
3-Nitroaniline	<0.42		0.42	0.082	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
4-Nitroaniline	<0.42		0.42	0.088	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2-Nitrophenol	<0.42		0.42	0.067	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
4-Nitrophenol	<0.86		0.86	0.23	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
N-Nitrosodiphenylamine	<0.21		0.21	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B15**

**Lab Sample ID: 500-44301-7**

**Date Collected: 02/15/12 12:30**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.86		0.86	0.22	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Phenol	<0.21		0.21	0.068	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1
2,4,6-Trichlorophenol	<0.42		0.42	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		27 - 113	02/20/12 17:23	02/24/12 04:14	1
2-Fluorophenol	60		30 - 110	02/20/12 17:23	02/24/12 04:14	1
Nitrobenzene-d5	57		22 - 110	02/20/12 17:23	02/24/12 04:14	1
Phenol-d5	56		26 - 112	02/20/12 17:23	02/24/12 04:14	1
Terphenyl-d14	66		33 - 129	02/20/12 17:23	02/24/12 04:14	1
2,4,6-Tribromophenol	64		30 - 137	02/20/12 17:23	02/24/12 04:14	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:29	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 19:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 19:29	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:29	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 19:29	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:29	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:29	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:29	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 19:29	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 19:29	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 19:29	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:29	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.15	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Arsenic</b>	<b>9.0</b>		0.63	0.088	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Barium</b>	<b>120</b>		0.63	0.035	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Beryllium</b>	<b>0.94</b>		0.25	0.013	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
Cadmium	<0.13		0.13	0.017	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Chromium</b>	<b>22</b>		0.63	0.054	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Copper</b>	<b>20</b>		0.63	0.088	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Lead</b>	<b>13</b>		0.32	0.15	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Nickel</b>	<b>20</b>		0.63	0.042	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Selenium</b>	<b>0.60</b>	<b>J</b>	0.63	0.18	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
Silver	<0.32		0.32	0.040	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Thallium</b>	<b>0.41</b>	<b>J</b>	0.63	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Zinc</b>	<b>48</b>	<b>B</b>	1.3	0.10	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Sodium</b>	<b>850</b>	<b>B</b>	63	3.3	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Potassium</b>	<b>1400</b>		32	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
<b>Calcium</b>	<b>2400</b>	<b>B</b>	13	2.0	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B15**

**Lab Sample ID: 500-44301-7**

Date Collected: 02/15/12 12:30

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 77.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24000	B	13	1.6	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
Vanadium	42		0.32	0.030	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
Magnesium	3600	B	6.3	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
Boron	3.5		3.2	0.23	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
Manganese	640	E	0.63	0.027	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1
Cobalt	9.4		0.32	0.025	mg/Kg	☼	02/17/12 09:11	02/22/12 04:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 12:50	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020	0.0061	mg/Kg	☼	02/20/12 11:00	02/20/12 13:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61		0.200	0.200	SU			02/21/12 19:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B13**

**Lab Sample ID: 500-44301-11**

Date Collected: 02/15/12 11:45

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Bromodichloromethane	<0.0047	*	0.0047	0.00071	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Carbon disulfide	<0.0047	*	0.0047	0.00067	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
<b>Methylene Chloride</b>	<b>0.0051</b>		0.0047	0.0013	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/15/12 11:45	02/21/12 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		67 - 120	02/15/12 11:45	02/21/12 05:21	1
Dibromofluoromethane	108		69 - 120	02/15/12 11:45	02/21/12 05:21	1
1,2-Dichloroethane-d4 (Surr)	114		69 - 120	02/15/12 11:45	02/21/12 05:21	1
Toluene-d8 (Surr)	108		69 - 122	02/15/12 11:45	02/21/12 05:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Benzo[a]pyrene	<0.039	*	0.039	0.0072	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Benzo[b]fluoranthene	<0.039	*	0.039	0.0077	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B13**

**Lab Sample ID: 500-44301-11**

Date Collected: 02/15/12 11:45

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0094	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Di-n-octyl phthalate	<0.20	*	0.20	0.080	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B13**

**Lab Sample ID: 500-44301-11**

**Date Collected: 02/15/12 11:45**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		27 - 113	02/20/12 17:23	02/24/12 05:54	1
2-Fluorophenol	77		30 - 110	02/20/12 17:23	02/24/12 05:54	1
Nitrobenzene-d5	74		22 - 110	02/20/12 17:23	02/24/12 05:54	1
Phenol-d5	69		26 - 112	02/20/12 17:23	02/24/12 05:54	1
Terphenyl-d14	80		33 - 129	02/20/12 17:23	02/24/12 05:54	1
2,4,6-Tribromophenol	73		30 - 137	02/20/12 17:23	02/24/12 05:54	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:53	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 19:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 19:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 19:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:53	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 19:53	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:53	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:53	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:53	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 19:53	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 19:53	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 19:53	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:53	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.13	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Arsenic</b>	<b>7.1</b>		0.57	0.079	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Barium</b>	<b>61</b>		0.57	0.032	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.011	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Cadmium</b>	<b>0.14</b>		0.11	0.015	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Chromium</b>	<b>16</b>		0.57	0.048	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Copper</b>	<b>17</b>		0.57	0.079	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Lead</b>	<b>9.0</b>		0.28	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Nickel</b>	<b>15</b>		0.57	0.037	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Selenium</b>	<b>0.18</b>	<b>J</b>	0.57	0.16	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
Silver	<0.28		0.28	0.036	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
Thallium	<0.57		0.57	0.19	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Zinc</b>	<b>35</b>	<b>B</b>	1.1	0.091	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Sodium</b>	<b>110</b>	<b>B</b>	57	2.9	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Potassium</b>	<b>930</b>		28	1.7	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
<b>Calcium</b>	<b>16000</b>	<b>B</b>	11	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B13**

**Lab Sample ID: 500-44301-11**

Date Collected: 02/15/12 11:45

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 82.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000	B	11	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
Vanadium	31		0.28	0.027	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
Magnesium	11000	B	5.7	1.0	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
Boron	3.2		2.8	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
Manganese	390		0.57	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1
Cobalt	5.9		0.28	0.023	mg/Kg	☼	02/17/12 09:11	02/22/12 05:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 13:01	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.018	0.0056	mg/Kg	☼	02/20/12 11:00	02/20/12 13:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.04		0.200	0.200	SU			02/21/12 19:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B14**

**Lab Sample ID: 500-44301-12**

Date Collected: 02/15/12 12:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Bromodichloromethane	<0.0047	*	0.0047	0.00071	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Carbon disulfide	<0.0047	*	0.0047	0.00067	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
<b>Methylene Chloride</b>	<b>0.0071</b>		0.0047	0.0013	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/15/12 12:00	02/21/12 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		67 - 120	02/15/12 12:00	02/21/12 05:47	1
Dibromofluoromethane	108		69 - 120	02/15/12 12:00	02/21/12 05:47	1
1,2-Dichloroethane-d4 (Surr)	110		69 - 120	02/15/12 12:00	02/21/12 05:47	1
Toluene-d8 (Surr)	106		69 - 122	02/15/12 12:00	02/21/12 05:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Acenaphthylene	<0.034		0.034	0.0087	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Benzo[a]pyrene	<0.038	*	0.038	0.0069	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Benzo[b]fluoranthene	<0.038	*	0.038	0.0073	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B14**

**Lab Sample ID: 500-44301-12**

**Date Collected: 02/15/12 12:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Benzo[k]fluoranthene	<0.038	*	0.038	0.0090	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Chrysene	<0.038		0.038	0.0085	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Di-n-octyl phthalate	<0.19	*	0.19	0.077	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B14**

**Lab Sample ID: 500-44301-12**

**Date Collected: 02/15/12 12:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		27 - 113	02/20/12 17:23	02/24/12 06:20	1
2-Fluorophenol	77		30 - 110	02/20/12 17:23	02/24/12 06:20	1
Nitrobenzene-d5	77		22 - 110	02/20/12 17:23	02/24/12 06:20	1
Phenol-d5	70		26 - 112	02/20/12 17:23	02/24/12 06:20	1
Terphenyl-d14	80		33 - 129	02/20/12 17:23	02/24/12 06:20	1
2,4,6-Tribromophenol	73		30 - 137	02/20/12 17:23	02/24/12 06:20	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:14	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 20:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 20:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 20:14	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:14	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:14	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 20:14	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:14	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:14	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:14	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 20:14	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 20:14	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 20:14	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:14	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:14	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Arsenic</b>	<b>6.3</b>		0.59	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Barium</b>	<b>68</b>		0.59	0.033	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Beryllium</b>	<b>0.76</b>		0.24	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Chromium</b>	<b>17</b>		0.59	0.050	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Copper</b>	<b>12</b>		0.59	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Lead</b>	<b>8.1</b>		0.30	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Nickel</b>	<b>14</b>		0.59	0.039	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Selenium</b>	<b>0.56</b>	<b>J</b>	0.59	0.17	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Thallium</b>	<b>0.23</b>	<b>J</b>	0.59	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Zinc</b>	<b>34</b>	<b>B</b>	1.2	0.095	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Sodium</b>	<b>56</b>	<b>J B</b>	59	3.0	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Potassium</b>	<b>760</b>		30	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
<b>Calcium</b>	<b>1700</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B14**

**Lab Sample ID: 500-44301-12**

Date Collected: 02/15/12 12:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 83.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000	B	12	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
Vanadium	32		0.30	0.028	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
Magnesium	2400	B	5.9	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
Boron	2.4	J	3.0	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
Manganese	360		0.59	0.025	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1
Cobalt	5.9		0.30	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 05:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 13:04	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0057	mg/Kg	☼	02/20/12 11:00	02/20/12 13:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.59		0.200	0.200	SU			02/21/12 20:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B10**

**Lab Sample ID: 500-44301-16**

**Date Collected: 02/15/12 15:15**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 89.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0020	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Benzene	<0.0041		0.0041	0.00044	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Bromodichloromethane	<0.0041	*	0.0041	0.00062	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Bromoform	<0.0041	*	0.0041	0.00066	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Bromomethane	<0.0041		0.0041	0.00087	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
2-Butanone (MEK)	<0.0041		0.0041	0.00088	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Carbon disulfide	<0.0041	*	0.0041	0.00058	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Chlorobenzene	<0.0041		0.0041	0.00064	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Chloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Chloroform	<0.0041		0.0041	0.00075	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Chloromethane	<0.0041		0.0041	0.00067	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00059	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00046	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Dibromochloromethane	<0.0041		0.0041	0.00056	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,2-Dichloroethane	<0.0041		0.0041	0.00041	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,1-Dichloroethene	<0.0041		0.0041	0.00064	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,2-Dichloropropane	<0.0041		0.0041	0.00092	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00046	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Ethylbenzene	<0.0041		0.0041	0.00061	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
2-Hexanone	<0.0041		0.0041	0.00058	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00069	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00061	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Styrene	<0.0041		0.0041	0.00051	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Tetrachloroethene	<0.0041		0.0041	0.00077	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Toluene	<0.0041		0.0041	0.00079	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00078	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Trichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Vinyl chloride	<0.0041		0.0041	0.00057	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1
Xylenes, Total	<0.0081		0.0081	0.00057	mg/Kg	☼	02/15/12 15:15	02/21/12 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		67 - 120	02/15/12 15:15	02/21/12 07:31	1
Dibromofluoromethane	110		69 - 120	02/15/12 15:15	02/21/12 07:31	1
1,2-Dichloroethane-d4 (Surr)	119		69 - 120	02/15/12 15:15	02/21/12 07:31	1
Toluene-d8 (Surr)	109		69 - 122	02/15/12 15:15	02/21/12 07:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Acenaphthylene	<0.033		0.033	0.0084	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Benzo[a]pyrene	<0.036	*	0.036	0.0067	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Benzo[b]fluoranthene	<0.036	*	0.036	0.0071	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B10**

**Lab Sample ID: 500-44301-16**

**Date Collected: 02/15/12 15:15**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 89.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Benzo[k]fluoranthene	<0.036	*	0.036	0.0087	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Di-n-octyl phthalate	<0.18	*	0.18	0.074	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B10**

**Lab Sample ID: 500-44301-16**

**Date Collected: 02/15/12 15:15**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 89.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Phenol	<0.18		0.18	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		27 - 113	02/20/12 17:23	02/24/12 16:37	1
2-Fluorophenol	52		30 - 110	02/20/12 17:23	02/24/12 16:37	1
Nitrobenzene-d5	63		22 - 110	02/20/12 17:23	02/24/12 16:37	1
Phenol-d5	70		26 - 112	02/20/12 17:23	02/24/12 16:37	1
Terphenyl-d14	80		33 - 129	02/20/12 17:23	02/24/12 16:37	1
2,4,6-Tribromophenol	73		30 - 137	02/20/12 17:23	02/24/12 16:37	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:39	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 20:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 20:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 20:39	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:39	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 20:39	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:39	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:39	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:39	1
<b>Zinc</b>	<b>0.033</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 20:39	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 20:39	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 20:39	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.12	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Arsenic</b>	<b>4.5</b>		0.51	0.071	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Barium</b>	<b>52</b>		0.51	0.029	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Beryllium</b>	<b>0.54</b>		0.20	0.010	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Cadmium</b>	<b>0.13</b>		0.10	0.014	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Chromium</b>	<b>11</b>		0.51	0.043	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Copper</b>	<b>11</b>		0.51	0.071	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Lead</b>	<b>16</b>		0.25	0.12	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Nickel</b>	<b>10</b>		0.51	0.034	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Selenium	<0.51		0.51	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Silver	<0.25		0.25	0.032	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Thallium	<0.51		0.51	0.17	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Zinc</b>	<b>29</b>	<b>B</b>	1.0	0.082	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Sodium</b>	<b>1600</b>	<b>B</b>	51	2.6	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Potassium</b>	<b>740</b>		25	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
<b>Calcium</b>	<b>16000</b>	<b>B</b>	10	1.6	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B10**

**Lab Sample ID: 500-44301-16**

Date Collected: 02/15/12 15:15

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 89.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000	B	10	1.3	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Vanadium	24		0.25	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Magnesium	11000	B	5.1	0.92	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Boron	2.8		2.5	0.18	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Manganese	380		0.51	0.021	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1
Cobalt	4.6		0.25	0.020	mg/Kg	☼	02/17/12 09:11	02/22/12 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 13:20	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0053	mg/Kg	☼	02/20/12 11:00	02/20/12 13:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55		0.200	0.200	SU			02/21/12 20:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B10 DUP**

**Lab Sample ID: 500-44301-17**

**Date Collected: 02/15/12 15:30**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 88.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Benzene	<0.0047		0.0047	0.00050	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Bromodichloromethane	<0.0047	*	0.0047	0.00071	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Carbon disulfide	<0.0047	*	0.0047	0.00066	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Chloromethane	<0.0047		0.0047	0.00076	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Dibromochloromethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
2-Hexanone	<0.0047		0.0047	0.00066	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00079	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Toluene	<0.0047		0.0047	0.00090	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00062	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Vinyl chloride	<0.0047		0.0047	0.00065	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1
Xylenes, Total	<0.0093		0.0093	0.00065	mg/Kg	☼	02/15/12 15:30	02/21/12 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/15/12 15:30	02/21/12 07:57	1
Dibromofluoromethane	106		69 - 120	02/15/12 15:30	02/21/12 07:57	1
1,2-Dichloroethane-d4 (Surr)	112		69 - 120	02/15/12 15:30	02/21/12 07:57	1
Toluene-d8 (Surr)	109		69 - 122	02/15/12 15:30	02/21/12 07:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Acenaphthylene	<0.034		0.034	0.0085	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Benzo[a]pyrene	<0.037	*	0.037	0.0068	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Benzo[b]fluoranthene	<0.037	*	0.037	0.0072	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B10 DUP**

**Lab Sample ID: 500-44301-17**

**Date Collected: 02/15/12 15:30**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 88.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Benzo[k]fluoranthene	<0.037	*	0.037	0.0089	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Di-n-octyl phthalate	<0.19	*	0.19	0.075	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-1-B10 DUP**

**Lab Sample ID: 500-44301-17**

**Date Collected: 02/15/12 15:30**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 88.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		27 - 113	02/20/12 17:23	02/24/12 16:54	1
2-Fluorophenol	66		30 - 110	02/20/12 17:23	02/24/12 16:54	1
Nitrobenzene-d5	71		22 - 110	02/20/12 17:23	02/24/12 16:54	1
Phenol-d5	73		26 - 112	02/20/12 17:23	02/24/12 16:54	1
Terphenyl-d14	76		33 - 129	02/20/12 17:23	02/24/12 16:54	1
2,4,6-Tribromophenol	66		30 - 137	02/20/12 17:23	02/24/12 16:54	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:45	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:45	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 20:45	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:45	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:45	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:45	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 20:45	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 20:45	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 20:45	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:45	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.13	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Arsenic</b>	<b>4.2</b>		0.55	0.077	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Barium</b>	<b>50</b>		0.55	0.031	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Beryllium</b>	<b>0.51</b>		0.22	0.011	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.015	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Chromium</b>	<b>9.4</b>		0.55	0.047	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Copper</b>	<b>9.4</b>		0.55	0.077	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Lead</b>	<b>8.3</b>		0.28	0.13	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Nickel</b>	<b>9.3</b>		0.55	0.036	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Selenium	<0.55		0.55	0.15	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Silver	<0.28		0.28	0.035	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Thallium	<0.55		0.55	0.19	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Zinc</b>	<b>22</b>	<b>B</b>	1.1	0.088	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Sodium</b>	<b>1500</b>	<b>B</b>	55	2.8	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Potassium</b>	<b>740</b>		28	1.6	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
<b>Calcium</b>	<b>31000</b>	<b>B</b>	11	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
 SDG: 500-44301-1

**Client Sample ID: 915B-1-B10 DUP**

**Lab Sample ID: 500-44301-17**

Date Collected: 02/15/12 15:30

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 88.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000	B	11	1.4	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Vanadium	22		0.28	0.026	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Magnesium	20000	B	5.5	1.0	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Boron	3.8		2.8	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Manganese	460		0.55	0.023	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1
Cobalt	4.3		0.28	0.022	mg/Kg	☼	02/17/12 09:11	02/22/12 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 13:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0053	mg/Kg	☼	02/20/12 11:00	02/20/12 13:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			02/21/12 20:31	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>Rte 14</u>	<b>COC No.:</b> <u>1</u> of <u>Z</u>
Andres Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	<b>Project No.:</b> <u>IDOT2011-03Z</u>	<b>Lab Job No.:</b> <u>500-44301</u>
		TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>Sample Temp:</b> <u>(28) (22)</u>
<b>Sampler:</b>			

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-1-B01	2/15/12	10:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
2	915B-1-B03	2/15	10:15	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
3	915B-1-B05	2/15	10:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
4	915B-1-B07	2/15	10:45	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
5	915B-1-B09	2/15	11:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
6	915B-1-B11	2/15	11:15	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
7	915B-1-B15	2/15	11:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
8	915B-4-B01	2/15	1:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-9.5'
9	915B-5-B01	2/15	1:50	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
10	915B-1-B12	2/15	11:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
11	915B-1-B13	2/15	11:45	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
12	915B-1-B14	2/15	12:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'

<b>Relinquished by:</b> <u>Chad V</u>	<b>Date/Time:</b> <u>2/15/12 16:20</u>	<b>Received by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>2/15/12 16:20</u>
<b>Relinquished by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>2/15/12 17:45</u>	<b>Received by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>2/16/12 07:40</u>
<b>Relinquished by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>TA</u>	<b>Received by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>TA</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-634-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> Pte 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 2 <b>Lab Job No.:</b> 500-44301 <b>Sample Temp.:</b>										
<b>ANALYSES</b>																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-4-B01 DUP	2/15	1:15	S	✓						✓	✓	✓	✓		0-9.5
14	915B-5-B02	2/15	2:30	S	✓						✓	✓	✓	✓		0-3.5
15	915B-2-B01	2/15	3:00	S	✓						✓	✓	✓	✓		0-3.5
16	915B-1-B10	2/15	3:15	S	✓						✓	✓	✓	✓		0-3.5
17	915B-1-B10 DUP	2/15	3:30	S	✓						✓	✓	✓	✓		0-3.5
18	915B-1-B08	2/15	4:00	S	✓						✓	✓	✓	✓		0-3.5
Relinquished by: <i>Cheryl Mink</i>		Date/Time: 2/15/12 16:20pm		Received by: <i>[Signature]</i>		Date/Time: 2/15/12 16:20		PNAS		Received by: <i>[Signature]</i>		Date/Time: 2/15/12 16:20		7A		
Relinquished by: <i>Mr. Wright</i>		Date/Time: 2/15/12 17:15		Received by: <i>[Signature]</i>		Date/Time: 2/15/12 17:15		Pesticides		Received by: <i>[Signature]</i>		Date/Time: 2/15/12 17:15		TA		
Relinquished by:		Date/Time:		Received by:		Date/Time:		PCBs		Received by:		Date/Time:				

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.



December 09, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13111395

Dear Colleen Grey:

TEKLAB, INC received 4 samples on 11/27/2013 1:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13111395

**Client Project:** IDOT2011-032

**Report Date:** 09-Dec-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111395

Client Project: IDOT2011-032

Report Date: 09-Dec-13

Lab ID: 13111395-001

Client Sample ID: 915B-1-B01

Matrix: SOLID

Collection Date: 11/25/2013 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.016	0.05	J	0.017	mg/L	1	12/09/2013 13:42	94395
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005	X	0.236	mg/L	1	12/04/2013 13:41	94262



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111395

Client Project: IDOT2011-032

Report Date: 09-Dec-13

Lab ID: 13111395-002

Client Sample ID: 915B-1-B07

Matrix: SOLID

Collection Date: 11/25/2013 11:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.016	0.05	J	<b>0.023</b>	mg/L	1	12/09/2013 13:48	94395
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005	X	<b>0.254</b>	mg/L	1	12/04/2013 15:53	94262



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111395

Client Project: IDOT2011-032

Report Date: 09-Dec-13

Lab ID: 13111395-003

Client Sample ID: 915B-1-B13

Matrix: SOLID

Collection Date: 11/25/2013 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		0.142	mg/L	1	12/04/2013 15:56	94262



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111395

Client Project: IDOT2011-032

Report Date: 09-Dec-13

Lab ID: 13111395-004

Client Sample ID: 915B-1-B14

Matrix: SOLID

Collection Date: 11/25/2013 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0893</b>	mg/L	1	12/04/2013 16:00	94262



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com
Project Name: <u>Rt. 14 McHenry Co.</u> Project No.: <u>DOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: <u>AGZ</u>		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>1311395</u> Sample Temp.: <u>1.4°C</u>	

**Special Instructions:**  
 See Table 2 for complete parameter lists and minimum reporting limits.  
 \* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.  
 \*\* If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments								
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids		Waste Characterization							
1311395-201	9158-1-801	11/25/13	1110	S																		0-3.5'	
202	9158-1-807	11/25/13	1120	S																			0-3.5'
203	9158-1-8013	11/25/13	1150	S																			0-3.5'
204	9158-1-814	11/25/13	1155	S																			0-3.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-25-13 1555</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-27-13 1300</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-27-13 1700</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-27-13 1300</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-27-13 1700</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-27-13 1300</u>

TekLab, Inc.  
Courier PickUp





September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091079

Dear Colleen Grey:

TEKLAB, INC received 4 samples on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13091079

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091079

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091079-001

Client Sample ID: 915B-1-B02

Matrix: SOLID

Collection Date: 09/20/2013 14:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0317</b>	mg/L	1	09/30/2013 9:28	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.345</b>	mg/L	1	09/25/2013 12:02	92207



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091079

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091079-002

Client Sample ID: 915B-1-B04

Matrix: SOLID

Collection Date: 09/20/2013 14:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0243</b>	mg/L	1	09/30/2013 9:39	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.385</b>	mg/L	1	09/25/2013 12:08	92207



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091079

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091079-003

Client Sample ID: 915B-1-B06

Matrix: SOLID

Collection Date: 09/20/2013 14:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0286</b>	mg/L	1	09/30/2013 9:42	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.231</b>	mg/L	1	09/25/2013 12:14	92207



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091079

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091079-004

Client Sample ID: 915B-1-B15

Matrix: SOLID

Collection Date: 09/20/2013 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	J	<b>0.104</b>	mg/L	1	09/25/2013 12:20	92207





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project Name: <u>Rt 14 McHenry Co</u> Project No.: <u>DOT 2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other <b>Sampler:</b> <u>AEI</u>		COC No.: <u>1</u> of <u>1</u> Lab Job No.: Sample Temp.: <u>23.0</u> <u>None</u>										
<b>Special Instructions:</b> See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter. <u>Sample 1-B15 0-3.5 MAY CONTAIN GLASS BREAKING TRANSIT. SOH 9/23/13</u>				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
13091079	<del>915B-X-B01</del>	9/20	2:55	S											X SPLP Mn/****TCLP	0-3.5'
202	915B-1-B02	9/20	2:50													0-3.5'
203	915B-1-B04	9/20	2:45													0-3.5'
	<del>915B-X-B05</del>															
	<del>915B-X-B06</del>															
	<del>915B-X-B07</del>															
	<del>915B-X-B08</del>															
204	915B-1-B15	9/20	2:10	S											X	0-3.5'
Relinquished by: <u>John A. Myers (AEI)</u>				Date/Time: <u>9/20/13</u>	Received by: <u>Stephanie Hayes</u>				Date/Time: <u>9/23/13</u>	Date/Time: <u>11:28</u>						
Relinquished by:				Date/Time:	Received by:				Date/Time:	Date/Time:						
Relinquished by:				Date/Time:	Received by:				Date/Time:	Date/Time:						





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9000 block of US 14

City: Crystal Lake State: IL Zip Code: 60012

County: McHenry Township: Dorr

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

Latitude: 42.26520 Longitude: -88.37684

(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

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

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

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

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.26520 Longitude: -88.37684

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)]:

LOCATION 915B-2-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-2. SEE FIGURE 15 AND TABLE 5b OF REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44301-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13111391.

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

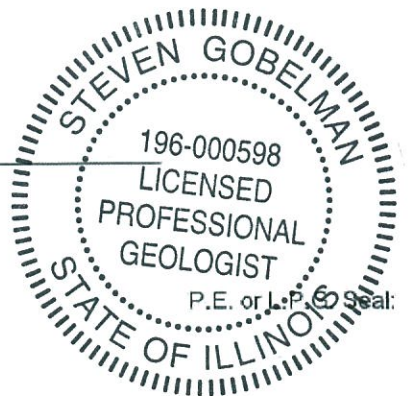
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

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

7/8/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISGS Site 915B-2  
Vacant Building**

<b>Sample ID</b>	915B-2-B01								
<b>Sample Depth (ft)</b>	0-3.5								
<b>Sample Date</b>	2/15/2012								
<b>PID</b>	0								
<b>Sample pH</b>	7.97								
<b>Matrix</b>	Soil								
<b>No Contaminants of Concern Noted.</b>									
		<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non-Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only		

# 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: 500-44301-1

TestAmerica Sample Delivery Group: 500-44301-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/19/2012 3:07:06 PM

Richard Wright

Project Manager II

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

### LINKS

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-2-B01**

**Lab Sample ID: 500-44301-15**

Date Collected: 02/15/12 15:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Bromodichloromethane	<0.0050	*	0.0050	0.00077	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Bromoform	<0.0050	*	0.0050	0.00082	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Carbon disulfide	<0.0050	*	0.0050	0.00072	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Chlorobenzene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Chloroform	<0.0050		0.0050	0.00093	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Chloromethane	<0.0050		0.0050	0.00083	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00074	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Dibromochloromethane	<0.0050		0.0050	0.00070	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Ethylbenzene	<0.0050		0.0050	0.00076	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
2-Hexanone	<0.0050		0.0050	0.00072	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00086	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00076	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Tetrachloroethene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Toluene	<0.0050		0.0050	0.00098	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00072	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Vinyl chloride	<0.0050		0.0050	0.00071	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/15/12 15:00	02/21/12 07:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		67 - 120	02/15/12 15:00	02/21/12 07:05	1
Dibromofluoromethane	106		69 - 120	02/15/12 15:00	02/21/12 07:05	1
1,2-Dichloroethane-d4 (Surr)	114		69 - 120	02/15/12 15:00	02/21/12 07:05	1
Toluene-d8 (Surr)	109		69 - 122	02/15/12 15:00	02/21/12 07:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Acenaphthylene	<0.037		0.037	0.0094	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Benzo[a]pyrene	<0.041	*	0.041	0.0074	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Benzo[b]fluoranthene	<0.041	*	0.041	0.0079	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-2-B01**

**Lab Sample ID: 500-44301-15**

**Date Collected: 02/15/12 15:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.0097	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.060	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Carbazole	<0.21		0.21	0.057	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2-Chlorophenol	<0.21		0.21	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Chrysene	<0.041		0.041	0.0092	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Di-n-octyl phthalate	<0.21	*	0.21	0.083	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Hexachlorobutadiene	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Isophorone	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
3 & 4 Methylphenol	<0.21		0.21	0.077	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-2-B01**

**Lab Sample ID: 500-44301-15**

**Date Collected: 02/15/12 15:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		27 - 113	02/20/12 17:23	02/24/12 16:20	1
2-Fluorophenol	55		30 - 110	02/20/12 17:23	02/24/12 16:20	1
Nitrobenzene-d5	57		22 - 110	02/20/12 17:23	02/24/12 16:20	1
Phenol-d5	63		26 - 112	02/20/12 17:23	02/24/12 16:20	1
Terphenyl-d14	74		33 - 129	02/20/12 17:23	02/24/12 16:20	1
2,4,6-Tribromophenol	64		30 - 137	02/20/12 17:23	02/24/12 16:20	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:33	1
<b>Barium</b>	<b>0.51</b>		0.50	0.010	mg/L		02/22/12 15:45	02/23/12 20:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 20:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 20:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:33	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 20:33	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:33	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:33	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:33	1
<b>Zinc</b>	<b>0.031 J</b>		0.10	0.020	mg/L		02/22/12 15:45	02/23/12 20:33	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 20:33	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 20:33	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:33	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:33	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Arsenic</b>	<b>8.0</b>		0.59	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Barium</b>	<b>90</b>		0.59	0.033	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Beryllium</b>	<b>0.94</b>		0.24	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Chromium</b>	<b>25</b>		0.59	0.050	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Copper</b>	<b>16</b>		0.59	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Lead</b>	<b>11</b>		0.30	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Nickel</b>	<b>21</b>		0.59	0.039	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Selenium</b>	<b>0.51 J</b>		0.59	0.17	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Thallium</b>	<b>0.41 J</b>		0.59	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Zinc</b>	<b>42 B</b>		1.2	0.095	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Sodium</b>	<b>750 B</b>		59	3.1	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Potassium</b>	<b>1000</b>		30	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
<b>Calcium</b>	<b>2000 B</b>		12	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-2-B01**

**Lab Sample ID: 500-44301-15**

Date Collected: 02/15/12 15:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 79.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	22000	B	12	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
Vanadium	39		0.30	0.028	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
Magnesium	3400	B	5.9	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
Boron	3.1		3.0	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
Manganese	540		0.59	0.025	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1
Cobalt	8.1		0.30	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 06:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 13:18	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.0061	mg/Kg	☼	02/20/12 11:00	02/20/12 13:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			02/21/12 20:19	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>Rte 14</u>	<b>COC No.:</b> <u>1</u> of <u>Z</u>
Andres Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT2011-03Z</u>	Lab Job No.: <u>500-44301</u>
		TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp: <u>(28) (22)</u>

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-1-B01	2/15/12	10:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
2	915B-1-B03	2/15	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
3	915B-1-B05	2/15	10:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
4	915B-1-B07	2/15	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
5	915B-1-B09	2/15	11:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
6	915B-1-B11	2/15	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
7	915B-1-B15	2/15	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
8	915B-4-B01	2/15	1:00	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
9	915B-5-B01	2/15	1:50	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
10	915B-1-B12	2/15	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
11	915B-1-B13	2/15	11:45	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
12	915B-1-B14	2/15	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <u>Chad Wright</u>	Date/Time: <u>2/15/12 16:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/15/12 16:20</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/15/12 17:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/16/12 07:40</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>TA</u>	Received by: <u>[Signature]</u>	Date/Time: <u>TA</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-634-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> <u>Pte 14</u> <b>Project No.:</b> <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> <u>2 of 2</u> <b>Lab Job No.:</b> <u>500-44301</u> <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-4-B01 DUP	2/15	1:15	S	✓						✓	✓	✓	✓		0-9.5
14	915B-5-B02	2/15	2:30	S	✓						✓	✓	✓	✓		0-3.5
15	915B-2-B01	2/15	3:00	S	✓						✓	✓	✓	✓		0-3.5
16	915B-1-B10	2/15	3:15	S	✓						✓	✓	✓	✓		0-3.5
17	915B-1-B10 DUP	2/15	3:30	S	✓						✓	✓	✓	✓		0-3.5
18	915B-1-B08	2/15	4:00	S	✓						✓	✓	✓	✓		0-3.5
Relinquished by: <u>Cheryl Mink</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	2/15/12 16:20pm				
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	2/15/12 17:15				
Relinquished by:					Date/Time	Received by:					Date/Time	2/16/12 07:40				

December 09, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13111391

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 11/27/2013 1:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13111391

**Client Project:** IDOT2011-032

**Report Date:** 09-Dec-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111391

Client Project: IDOT2011-032

Report Date: 09-Dec-13

Lab ID: 13111391-001

Client Sample ID: 915B-2-B01

Matrix: SOLID

Collection Date: 11/25/2013 11:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.016	0.05	J	0.021	mg/L	1	12/09/2013 13:24	94395
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005	X	0.239	mg/L	1	12/04/2013 13:14	94262



## CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabin.com	Project Name: <u>Rt 14 McHenry Co</u> Project No.: <u>ID07 2011-03a</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>  </u> of <u>  </u> Lab Job No.: <u>1311391</u> Sample Temp.: <u>1.4, Ice</u>																																																																																																										
<b>Special Instructions:</b> See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other																																																																																																											
<b>Analyses</b>		<b>Comments</b>																																																																																																											
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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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9200 block of US 14 (west side of US 14)

City: Crystal Lake State: IL Zip Code: 60012

County: McHenry Township: Dorr

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

Latitude: 42.26670 Longitude: -88.37815

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.26670 Longitude: -88.37815Uncontaminated 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):

LOCATIONS 915B-3-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-3. SEE FIGURE 13 AND TABLE 5c OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44345-1

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


I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/8/14

Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-3  
Agricultural Fields**

Sample ID	915B-3-B01	915B-3-B02					
Sample Depth (ft)	0-9.5	0-9.5					
Sample Date	2/16/2012	2/16/2012					
PID	0	0					
Sample pH	8.52	8.25					
Matrix	Soil	Soil					
<b>No Contaminants of Concern Noted.</b>							

<sup>1</sup> Most Stringent MAC

<sup>2</sup> Outside a Populated Area MAC

<sup>3</sup> Populated non-Metropolitan Statistical Area MAC

<sup>4</sup> Within Chicago Corporate Limits MAC

<sup>5</sup> Metropolitan Statistical Area MAC

<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44345-1

TestAmerica Sample Delivery Group: 500-44345-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/20/2012 9:42:48 AM

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B01**

**Lab Sample ID: 500-44345-4**

Date Collected: 02/16/12 09:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Bromoform	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Carbon disulfide	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/16/12 09:20	02/21/12 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		67 - 120	02/16/12 09:20	02/21/12 11:56	1
Dibromofluoromethane	91		69 - 120	02/16/12 09:20	02/21/12 11:56	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 120	02/16/12 09:20	02/21/12 11:56	1
Toluene-d8 (Surr)	88		69 - 122	02/16/12 09:20	02/21/12 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Acenaphthylene	<0.034		0.034	0.0087	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Benzo[a]anthracene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0079	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0069	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Benzo[b]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B01**

**Lab Sample ID: 500-44345-4**

Date Collected: 02/16/12 09:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Benzo[k]fluoranthene</b>	<b>0.0098</b>	<b>J *</b>	0.038	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.082</b>	<b>J</b>	0.19	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.038	0.0086	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Fluoranthene</b>	<b>0.027</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B01**

**Lab Sample ID: 500-44345-4**

Date Collected: 02/16/12 09:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.038	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		27 - 113	02/21/12 18:14	02/24/12 20:42	1
2-Fluorophenol	47		30 - 110	02/21/12 18:14	02/24/12 20:42	1
Nitrobenzene-d5	46		22 - 110	02/21/12 18:14	02/24/12 20:42	1
Phenol-d5	51		26 - 112	02/21/12 18:14	02/24/12 20:42	1
Terphenyl-d14	74		33 - 129	02/21/12 18:14	02/24/12 20:42	1
2,4,6-Tribromophenol	71		30 - 137	02/21/12 18:14	02/24/12 20:42	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 02:07	1
<b>Barium</b>	<b>0.63</b>		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 02:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 02:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 02:07	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:07	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 02:07	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:07	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:07	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:07	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 02:07	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 02:07	1
<b>Boron</b>	<b>1.3</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 02:07	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:07	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:07	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Arsenic</b>	<b>4.6</b>		0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Barium</b>	<b>35</b>		0.59	0.033	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Beryllium</b>	<b>0.48</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Cadmium</b>	<b>0.20</b>		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Chromium</b>	<b>9.4</b>		0.59	0.050	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Copper</b>	<b>15</b>	<b>B</b>	0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Lead</b>	<b>5.4</b>		0.30	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Nickel</b>	<b>9.8</b>	<b>B</b>	0.59	0.039	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Thallium	<0.59		0.59	0.20	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Zinc</b>	<b>25</b>	<b>B</b>	1.2	0.095	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Sodium</b>	<b>590</b>	<b>B</b>	59	3.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Potassium</b>	<b>770</b>		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
<b>Calcium</b>	<b>76000</b>	<b>B E</b>	12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B01**

**Lab Sample ID: 500-44345-4**

Date Collected: 02/16/12 09:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 84.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000	B	12	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Vanadium	21		0.30	0.028	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Magnesium	40000	B	5.9	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Boron	4.4		3.0	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Manganese	360		0.59	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1
Cobalt	4.9		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:35	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	J	0.019	0.0058	mg/Kg	☼	02/21/12 10:55	02/21/12 12:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			02/23/12 11:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B02**

**Lab Sample ID: 500-44345-5**

Date Collected: 02/16/12 09:40

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0026	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Benzene	<0.0053		0.0053	0.00058	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Bromodichloromethane	<0.0053		0.0053	0.00081	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Bromoform	<0.0053		0.0053	0.00087	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Bromomethane	<0.0053		0.0053	0.0011	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
2-Butanone (MEK)	<0.0053		0.0053	0.0012	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Carbon disulfide	<0.0053	*	0.0053	0.00076	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Carbon tetrachloride	<0.0053		0.0053	0.0012	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Chlorobenzene	<0.0053		0.0053	0.00085	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Chloroethane	<0.0053	*	0.0053	0.0011	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Chloroform	<0.0053		0.0053	0.00098	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Chloromethane	<0.0053		0.0053	0.00088	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00078	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00061	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Dibromochloromethane	<0.0053		0.0053	0.00074	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,1-Dichloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,2-Dichloroethane	<0.0053		0.0053	0.00055	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,2-Dichloropropane	<0.0053		0.0053	0.0012	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00061	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Ethylbenzene	<0.0053		0.0053	0.00080	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
2-Hexanone	<0.0053		0.0053	0.00076	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Methylene Chloride	<0.0053		0.0053	0.0015	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.00091	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00080	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Styrene	<0.0053		0.0053	0.00067	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.00073	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Toluene	<0.0053		0.0053	0.0010	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00076	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Vinyl chloride	<0.0053		0.0053	0.00075	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1
Xylenes, Total	<0.011		0.011	0.00075	mg/Kg	☼	02/16/12 09:40	02/21/12 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		67 - 120	02/16/12 09:40	02/21/12 12:21	1
Dibromofluoromethane	90		69 - 120	02/16/12 09:40	02/21/12 12:21	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/16/12 09:40	02/21/12 12:21	1
Toluene-d8 (Surr)	89		69 - 122	02/16/12 09:40	02/21/12 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B02**

**Lab Sample ID: 500-44345-5**

**Date Collected: 02/16/12 09:40**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B02**

**Lab Sample ID: 500-44345-5**

Date Collected: 02/16/12 09:40

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		27 - 113	02/21/12 18:14	02/24/12 21:02	1
2-Fluorophenol	88		30 - 110	02/21/12 18:14	02/24/12 21:02	1
Nitrobenzene-d5	71		22 - 110	02/21/12 18:14	02/24/12 21:02	1
Phenol-d5	92		26 - 112	02/21/12 18:14	02/24/12 21:02	1
Terphenyl-d14	85		33 - 129	02/21/12 18:14	02/24/12 21:02	1
2,4,6-Tribromophenol	104		30 - 137	02/21/12 18:14	02/24/12 21:02	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 02:13	1
<b>Barium</b>	<b>0.65</b>		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 02:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 02:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 02:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:13	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 02:13	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:13	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:14	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:13	1
<b>Zinc</b>	<b>0.044</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 02:13	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 02:13	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 02:13	1
<b>Manganese</b>	<b>0.88</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.13	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Arsenic</b>	<b>4.6</b>		0.57	0.080	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Barium</b>	<b>62</b>		0.57	0.032	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Beryllium</b>	<b>0.54</b>		0.23	0.011	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Chromium</b>	<b>11</b>		0.57	0.049	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Copper</b>	<b>13</b>	<b>B</b>	0.57	0.080	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Lead</b>	<b>21</b>		0.29	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Nickel</b>	<b>10</b>	<b>B</b>	0.57	0.038	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Silver	<0.29		0.29	0.036	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Thallium	<0.57		0.57	0.20	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Zinc</b>	<b>37</b>	<b>B</b>	1.1	0.092	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Sodium</b>	<b>1400</b>	<b>B</b>	57	3.0	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Potassium</b>	<b>870</b>		29	1.7	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
<b>Calcium</b>	<b>48000</b>	<b>B</b>	11	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-3-B02**

**Lab Sample ID: 500-44345-5**

Date Collected: 02/16/12 09:40

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 82.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000	B	11	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Vanadium	21		0.29	0.028	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Magnesium	28000	B	5.7	1.0	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Boron	3.6		2.9	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Manganese	480		0.57	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1
Cobalt	4.9		0.29	0.023	mg/Kg	☼	02/22/12 09:00	02/23/12 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.0060	mg/Kg	☼	02/21/12 10:55	02/21/12 12:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			02/23/12 11:46	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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

### GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the 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.
E	Result exceeded calibration range.
L	A negative instrument reading had an absolute value greater than the reporting limit
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than 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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>506-44345</u> Sample Temp: <u>(26) (23)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Date/Time		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization	Comments
1	915B-1-B06	2/16/12	8:30	S	✓						✓	✓	✓	✓			0-3.5'
2	915B-1-B02	2/16	9:00	S	✓						✓	✓	✓	✓			0-3.5'
3	915B-1-B04	2/16	8:45	S	✓						✓	✓	✓	✓			0-3.5'
4	915B-3-B01	2/16	9:20	S	✓						✓	✓	✓	✓			0-9.5'
5	915B-3-B02	2/16	9:40	S	✓						✓	✓	✓	✓			0-9.5'
6	915B-6-B01-1	2/16	10:45	S	✓						✓	✓	✓	✓			0-5'
7	915B-6-B01-2	2/16	11:00	S	✓						✓	✓	✓	✓			5-9.5'
8	915B-6-B02-1	2/16	12:30	S	✓						✓	✓	✓	✓			0-5'
9	915B-6-B02-2	2/16	1:00	S	✓						✓	✓	✓	✓			5-9.5'
10	915B-7-B01	2/16/12	1:20	S	✓						✓	✓	✓	✓			0-3.5'
11	915B-7-B03	2/16	1:45	S	✓						✓	✓	✓	✓			0-6.5'
12	915B-7-B03N/A	2/16	2:15	S	✓						✓	✓	✓	✓			0-6.5'
Relinquished by: <i>Chad</i>					Received by: <i>Chad</i>					Date/Time: <u>2/16/12 16:15</u>							
Relinquished by: <i>Chad</i>					Received by: <i>Chad</i>					Date/Time: <u>2/16/12 17:30</u>							
Relinquished by: <i>Chad</i>					Received by: <i>Chad</i>					Date/Time: <u>2/16/12 18:00</u>							



## CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 6 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> 2 of 2 <b>Lab Job No.:</b> 500-44345 <b>Sample Temp:</b>																																																																																																						
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Analyses</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">Lab ID</th> <th style="width: 15%;">Sample ID</th> <th style="width: 10%;">Sample Date</th> <th style="width: 10%;">Sample Time</th> <th style="width: 5%;">Matrix</th> <th style="width: 5%;">VOCs</th> <th style="width: 5%;">SVOCs</th> <th style="width: 5%;">BETX &amp; MTBE</th> <th style="width: 5%;">PNAs</th> <th style="width: 5%;">Pesticides</th> <th style="width: 5%;">PCBs</th> <th style="width: 5%;">Total Metals</th> <th style="width: 5%;">TCLP/SPLP Metals</th> <th style="width: 5%;">PH</th> <th style="width: 5%;">% Solids</th> <th style="width: 10%;">Waste Characterization</th> <th style="width: 5%;">Comments</th> </tr> <tr> <td>13</td> <td>915B-7-B05</td> <td>2/16/12</td> <td>2:40</td> <td>S</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>0-9.5'</td> </tr> <tr> <td>14</td> <td>915B-7-B06</td> <td>2/16</td> <td>3:00</td> <td>S</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>0-9.5'</td> </tr> <tr> <td>15</td> <td>915B-7-B07</td> <td>2/16</td> <td>3:20</td> <td>S</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>0-9.5'</td> </tr> <tr> <td>16</td> <td>915B-11-B03-1</td> <td>2/16</td> <td>3:45</td> <td>S</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>0-4'</td> </tr> <tr> <td>17</td> <td>915B-11-B03-2</td> <td>2/16</td> <td>4:00</td> <td>S</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>4-6.5'</td> </tr> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments	13	915B-7-B05	2/16/12	2:40	S	✓	✓					✓	✓	✓	✓		0-9.5'	14	915B-7-B06	2/16	3:00	S	✓	✓					✓	✓	✓	✓		0-9.5'	15	915B-7-B07	2/16	3:20	S	✓	✓					✓	✓	✓	✓		0-9.5'	16	915B-11-B03-1	2/16	3:45	S	✓	✓					✓	✓	✓	✓		0-4'	17	915B-11-B03-2	2/16	4:00	S	✓	✓					✓	✓	✓	✓		4-6.5'
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments																																																																																									
13	915B-7-B05	2/16/12	2:40	S	✓	✓					✓	✓	✓	✓		0-9.5'																																																																																									
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15	915B-7-B07	2/16	3:20	S	✓	✓					✓	✓	✓	✓		0-9.5'																																																																																									
16	915B-11-B03-1	2/16	3:45	S	✓	✓					✓	✓	✓	✓		0-4'																																																																																									
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<b>Relinquished by:</b> <i>Colleen Grey</i> Date/Time: 2/16/12 16:15 <b>Relinquished by:</b> <i>JTA</i> Date/Time: 2/16/12 17:30 <b>Relinquished by:</b>		<b>Received by:</b> <i>JTA</i> Date/Time: 2/16/12 <b>Received by:</b> <i>JTA</i> Date/Time: 2/17/12 10:00 <b>Received by:</b>																																																																																																							



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9208 Ridgefield Rd.

City: Crystal Lake State: IL Zip Code: 60012

County: McHenry Township: Dorr

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

Latitude: 42.26775 Longitude: -88.37718

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.26775 Longitude: -88.37718

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)]:

LOCATION 915B4-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-4. SEE FIGURE 14 AND TABLE 5d OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44301-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:

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

2/8/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc



The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-4**

**Residence**

Sample ID	915B-4-B01	915B-4-B01 DUP						
Sample Depth (ft)	0-9.5	0-9.5						
Sample Date	2/15/2012	2/15/2012						
PID	0	0						
Sample pH	7.71	7.19						
Matrix	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>								

	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44301-1  
TestAmerica Sample Delivery Group: 500-44301-1  
Client Project/Site: IDOT - US 14 - WO 032  
Revision: 1

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
9/19/2012 3:07:06 PM

Richard Wright  
Project Manager II  
[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.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01**

**Lab Sample ID: 500-44301-8**

Date Collected: 02/15/12 13:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Bromodichloromethane	<0.0046	*	0.0046	0.00070	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Carbon disulfide	<0.0046	*	0.0046	0.00065	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1
Xylenes, Total	<0.0092		0.0092	0.00065	mg/Kg	☼	02/15/12 13:00	02/21/12 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		67 - 120	02/15/12 13:00	02/21/12 04:04	1
Dibromofluoromethane	108		69 - 120	02/15/12 13:00	02/21/12 04:04	1
1,2-Dichloroethane-d4 (Surr)	115		69 - 120	02/15/12 13:00	02/21/12 04:04	1
Toluene-d8 (Surr)	108		69 - 122	02/15/12 13:00	02/21/12 04:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Acenaphthylene	<0.037		0.037	0.0095	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Benzo[a]pyrene	<0.041	*	0.041	0.0075	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Benzo[b]fluoranthene	<0.041	*	0.041	0.0080	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01**

**Lab Sample ID: 500-44301-8**

**Date Collected: 02/15/12 13:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 79.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.0099	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.080</b>	<b>J</b>	0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Di-n-octyl phthalate	<0.21	*	0.21	0.084	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01**

**Lab Sample ID: 500-44301-8**

**Date Collected: 02/15/12 13:00**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 79.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/20/12 17:23	02/24/12 04:39	1
2-Fluorophenol	87		30 - 110	02/20/12 17:23	02/24/12 04:39	1
Nitrobenzene-d5	84		22 - 110	02/20/12 17:23	02/24/12 04:39	1
Phenol-d5	80		26 - 112	02/20/12 17:23	02/24/12 04:39	1
Terphenyl-d14	95		33 - 129	02/20/12 17:23	02/24/12 04:39	1
2,4,6-Tribromophenol	84		30 - 137	02/20/12 17:23	02/24/12 04:39	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:35	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 19:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 19:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 19:35	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:35	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 19:35	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:35	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:35	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:35	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 19:35	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 19:35	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 19:35	1
<b>Manganese</b>	<b>0.067</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:35	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:35	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Arsenic</b>	<b>8.7</b>		0.61	0.086	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Barium</b>	<b>96</b>		0.61	0.034	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Beryllium</b>	<b>0.91</b>		0.25	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Cadmium</b>	<b>0.034</b>	<b>J</b>	0.12	0.017	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Chromium</b>	<b>22</b>		0.61	0.052	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Copper</b>	<b>19</b>		0.61	0.086	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Lead</b>	<b>11</b>		0.31	0.15	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Nickel</b>	<b>17</b>		0.61	0.040	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Selenium</b>	<b>0.43</b>	<b>J</b>	0.61	0.17	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
Silver	<0.31		0.31	0.039	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Thallium</b>	<b>0.37</b>	<b>J</b>	0.61	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Zinc</b>	<b>47</b>	<b>B</b>	1.2	0.098	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Sodium</b>	<b>590</b>	<b>B</b>	61	3.2	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Potassium</b>	<b>1200</b>		31	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
<b>Calcium</b>	<b>6400</b>	<b>B</b>	12	2.0	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01**

**Lab Sample ID: 500-44301-8**

Date Collected: 02/15/12 13:00

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 79.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	23000	B	12	1.6	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
Vanadium	42		0.31	0.029	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
Magnesium	5900	B	6.1	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
Boron	3.1		3.1	0.22	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
Manganese	410		0.61	0.026	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1
Cobalt	8.4		0.31	0.025	mg/Kg	☼	02/17/12 09:11	02/22/12 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 12:53	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.0060	mg/Kg	☼	02/20/12 11:00	02/20/12 13:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.71		0.200	0.200	SU			02/21/12 19:37	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01 DUP**

**Lab Sample ID: 500-44301-13**

**Date Collected: 02/15/12 13:15**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 80.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Bromodichloromethane	<0.0049	*	0.0049	0.00074	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Carbon disulfide	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1
Xylenes, Total	<0.0098		0.0098	0.00068	mg/Kg	☼	02/15/12 13:15	02/21/12 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		67 - 120	02/15/12 13:15	02/21/12 06:13	1
Dibromofluoromethane	114		69 - 120	02/15/12 13:15	02/21/12 06:13	1
1,2-Dichloroethane-d4 (Surr)	121	X	69 - 120	02/15/12 13:15	02/21/12 06:13	1
Toluene-d8 (Surr)	110		69 - 122	02/15/12 13:15	02/21/12 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Acenaphthylene	<0.037		0.037	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
<b>Benzo[a]anthracene</b>	<b>0.0085</b>	<b>J</b>	0.040	0.0085	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
<b>Benzo[a]pyrene</b>	<b>0.0082</b>	<b>J *</b>	0.040	0.0074	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
<b>Benzo[b]fluoranthene</b>	<b>0.0093</b>	<b>J *</b>	0.040	0.0079	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01 DUP**

**Lab Sample ID: 500-44301-13**

Date Collected: 02/15/12 13:15

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Benzo[k]fluoranthene	<0.040	*	0.040	0.0096	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Di-n-octyl phthalate	<0.20	*	0.20	0.082	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01 DUP**

**Lab Sample ID: 500-44301-13**

Date Collected: 02/15/12 13:15

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		27 - 113	02/20/12 17:23	02/24/12 06:45	1
2-Fluorophenol	69		30 - 110	02/20/12 17:23	02/24/12 06:45	1
Nitrobenzene-d5	67		22 - 110	02/20/12 17:23	02/24/12 06:45	1
Phenol-d5	64		26 - 112	02/20/12 17:23	02/24/12 06:45	1
Terphenyl-d14	82		33 - 129	02/20/12 17:23	02/24/12 06:45	1
2,4,6-Tribromophenol	79		30 - 137	02/20/12 17:23	02/24/12 06:45	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:20	1
<b>Barium</b>	<b>0.70</b>		0.50	0.010	mg/L		02/22/12 15:45	02/23/12 20:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 20:20	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:20	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:20	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 20:20	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:20	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:20	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:20	1
<b>Zinc</b>	<b>0.027 J</b>		0.10	0.020	mg/L		02/22/12 15:45	02/23/12 20:20	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 20:20	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 20:20	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:20	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:20	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Arsenic</b>	<b>8.5</b>		0.60	0.084	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Barium</b>	<b>120</b>		0.60	0.034	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Beryllium</b>	<b>1.0</b>		0.24	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Chromium</b>	<b>22</b>		0.60	0.051	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Copper</b>	<b>18</b>		0.60	0.084	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Lead</b>	<b>11</b>		0.30	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Nickel</b>	<b>17</b>		0.60	0.040	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Selenium</b>	<b>0.40 J</b>		0.60	0.17	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
Silver	<0.30		0.30	0.038	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Thallium</b>	<b>0.30 J</b>		0.60	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Zinc</b>	<b>45 B</b>		1.2	0.096	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Sodium</b>	<b>430 B</b>		60	3.1	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Potassium</b>	<b>1200</b>		30	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
<b>Calcium</b>	<b>3300 B</b>		12	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-4-B01 DUP**

**Lab Sample ID: 500-44301-13**

Date Collected: 02/15/12 13:15

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	22000	B	12	1.6	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
Vanadium	41		0.30	0.029	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
Magnesium	4100	B	6.0	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
Boron	2.8	J	3.0	0.22	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
Manganese	350		0.60	0.025	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1
Cobalt	6.7		0.30	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 05:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 13:12	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.019	0.0057	mg/Kg	☼	02/20/12 11:00	02/20/12 13:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.19		0.200	0.200	SU			02/21/12 20:07	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>Rte 14</u>	<b>COC No.:</b> <u>1</u> of <u>Z</u>
Andres Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT2011-03Z</u>	Lab Job No.: <u>500-44301</u>
		TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp: <u>(28) (22)</u>

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-1-B01	2/15/12	10:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
2	915B-1-B03	2/15	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
3	915B-1-B05	2/15	10:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
4	915B-1-B07	2/15	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
5	915B-1-B09	2/15	11:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
6	915B-1-B11	2/15	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
7	915B-1-B15	2/15	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
8	915B-4-B01	2/15	1:00	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
9	915B-5-B01	2/15	1:50	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
10	915B-1-B12	2/15	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
11	915B-1-B13	2/15	11:45	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
12	915B-1-B14	2/15	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <u>Chad Wright</u>	Date/Time: <u>2/15/12 16:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/15/12 16:20</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/15/12 17:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/16/12 07:40</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/15/12 17:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/16/12 07:40</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-634-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> <u>Pte 14</u> <b>Project No.:</b> <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> <u>2 of 2</u> <b>Lab Job No.:</b> <u>500-44301</u> <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-4-B01 DUP	2/15	1:15	S	✓						✓	✓	✓	✓		0-9.5
14	915B-5-B02	2/15	2:30	S	✓						✓	✓	✓	✓		0-3.5
15	915B-2-B01	2/15	3:00	S	✓						✓	✓	✓	✓		0-3.5
16	915B-1-B10	2/15	3:15	S	✓						✓	✓	✓	✓		0-3.5
17	915B-1-B10 DUP	2/15	3:30	S	✓						✓	✓	✓	✓		0-3.5
18	915B-1-B08	2/15	4:00	S	✓						✓	✓	✓	✓		0-3.5
Relinquished by: <u>Cheryl Mink</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	2/15/12 16:20pm				
Relinquished by: <u>Mr. Wright</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	2/15/12 17:15				
Relinquished by:					Date/Time	Received by:					Date/Time	2/16/12 07:40				





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9600 Ridgefield Road

City: Crystal Lake State: IL Zip Code: 60012

County: McHenry Township: Dorr

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

Latitude: 42.26771 Longitude: -88.37761

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.26771 Longitude: -88.37761

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):

LOCATIONS 915B-5-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-5. SEE FIGURES 13 AND 14 AND TABLE 5e OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44301-1. TEKLAB, INC. ANALYTICAL REPORT - WORK NUMBER NUMBER: 13091080.

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

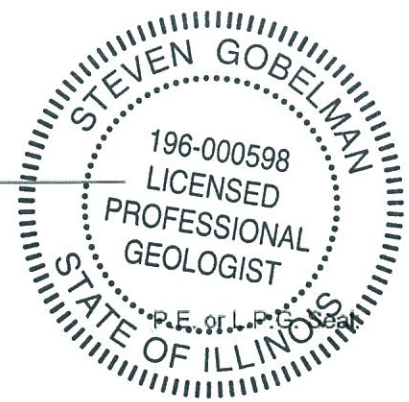
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
\_\_\_\_\_  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

7/8/14  
Date:





**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-5**

**Lutheran Church and School**

Sample ID	915B-5-B01	915B-5-B02						
Sample Depth (ft)	0-3.5	0-3.5						
Sample Date	2/15/2012	2/15/2012						
PID	0	0						
Sample pH	7.6	7.1						
Matrix	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>								

<sup>1</sup> Most Stringent  
MAC

<sup>2</sup> Outside a  
Populated Area  
MAC

<sup>3</sup> Populated  
non-  
Metropolitan  
Statistical Area  
MAC

<sup>4</sup> Within  
Chicago  
Corporate Limits  
MAC

<sup>5</sup> Metropolitan  
Statistical Area  
MAC

<sup>6</sup> Class I Soil  
TCLP/SPLP  
Comparisons  
Only

# 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: 500-44301-1  
TestAmerica Sample Delivery Group: 500-44301-1  
Client Project/Site: IDOT - US 14 - WO 032  
Revision: 1

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
9/19/2012 3:07:06 PM

Richard Wright  
Project Manager II  
[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.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B01**

**Lab Sample ID: 500-44301-9**

Date Collected: 02/15/12 13:50

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Bromodichloromethane	<0.0049	*	0.0049	0.00075	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Bromoform	<0.0049	*	0.0049	0.00080	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Carbon disulfide	<0.0049	*	0.0049	0.00070	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Chloroform	<0.0049		0.0049	0.00091	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Tetrachloroethene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Toluene	<0.0049		0.0049	0.00096	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1
Xylenes, Total	<0.0099		0.0099	0.00069	mg/Kg	☼	02/15/12 13:50	02/21/12 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		67 - 120	02/15/12 13:50	02/21/12 04:29	1
Dibromofluoromethane	112		69 - 120	02/15/12 13:50	02/21/12 04:29	1
1,2-Dichloroethane-d4 (Surr)	120		69 - 120	02/15/12 13:50	02/21/12 04:29	1
Toluene-d8 (Surr)	108		69 - 122	02/15/12 13:50	02/21/12 04:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Benzo[a]pyrene	<0.039	*	0.039	0.0072	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Benzo[b]fluoranthene	<0.039	*	0.039	0.0077	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B01**

**Lab Sample ID: 500-44301-9**

**Date Collected: 02/15/12 13:50**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 80.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0094	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Di-n-octyl phthalate	<0.20	*	0.20	0.080	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B01**

**Lab Sample ID: 500-44301-9**

Date Collected: 02/15/12 13:50

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		27 - 113	02/20/12 17:23	02/24/12 05:03	1
2-Fluorophenol	84		30 - 110	02/20/12 17:23	02/24/12 05:03	1
Nitrobenzene-d5	48		22 - 110	02/20/12 17:23	02/24/12 05:03	1
Phenol-d5	80		26 - 112	02/20/12 17:23	02/24/12 05:03	1
Terphenyl-d14	89		33 - 129	02/20/12 17:23	02/24/12 05:03	1
2,4,6-Tribromophenol	89		30 - 137	02/20/12 17:23	02/24/12 05:03	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:41	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.010	mg/L		02/22/12 15:45	02/23/12 19:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 19:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 19:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:41	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:41	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 19:41	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:41	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 19:41	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:41	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		02/22/12 15:45	02/23/12 19:41	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 19:41	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 19:41	1
<b>Manganese</b>	<b>0.025</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 19:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 19:41	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Arsenic</b>	<b>7.7</b>		0.59	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Barium</b>	<b>64</b>		0.59	0.033	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Beryllium</b>	<b>0.84</b>		0.24	0.012	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Cadmium</b>	<b>0.032</b>	<b>J</b>	0.12	0.016	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Chromium</b>	<b>17</b>		0.59	0.050	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Copper</b>	<b>17</b>		0.59	0.083	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Lead</b>	<b>10</b>		0.30	0.14	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Nickel</b>	<b>19</b>		0.59	0.039	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Selenium</b>	<b>0.39</b>	<b>J</b>	0.59	0.17	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Thallium</b>	<b>0.39</b>	<b>J</b>	0.59	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Zinc</b>	<b>43</b>	<b>B</b>	1.2	0.095	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Sodium</b>	<b>2100</b>	<b>B</b>	59	3.1	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Potassium</b>	<b>830</b>		30	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
<b>Calcium</b>	<b>1400</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B01**

**Lab Sample ID: 500-44301-9**

Date Collected: 02/15/12 13:50

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 80.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000	B	12	1.5	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
Vanadium	36		0.30	0.028	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
Magnesium	2300	B	5.9	1.1	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
Boron	2.3	J	3.0	0.21	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
Manganese	560		0.59	0.025	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1
Cobalt	7.4		0.30	0.024	mg/Kg	☼	02/17/12 09:11	02/22/12 05:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 12:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.018	0.0055	mg/Kg	☼	02/20/12 11:00	02/20/12 13:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.60		0.200	0.200	SU			02/21/12 19:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B02**

**Lab Sample ID: 500-44301-14**

Date Collected: 02/15/12 14:30

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Bromodichloromethane	<0.0044	*	0.0044	0.00067	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Bromoform	<0.0044	*	0.0044	0.00071	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Bromomethane	<0.0044		0.0044	0.00094	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
2-Butanone (MEK)	<0.0044		0.0044	0.00095	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Carbon disulfide	<0.0044	*	0.0044	0.00063	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Carbon tetrachloride	<0.0044		0.0044	0.00096	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Chlorobenzene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Chloroethane	<0.0044		0.0044	0.00093	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00064	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,2-Dichloropropane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
2-Hexanone	<0.0044		0.0044	0.00063	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Styrene	<0.0044		0.0044	0.00056	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Tetrachloroethene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Toluene	<0.0044		0.0044	0.00086	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Trichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1
Xylenes, Total	<0.0088		0.0088	0.00062	mg/Kg	☼	02/15/12 14:30	02/21/12 06:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/15/12 14:30	02/21/12 06:39	1
Dibromofluoromethane	109		69 - 120	02/15/12 14:30	02/21/12 06:39	1
1,2-Dichloroethane-d4 (Surr)	113		69 - 120	02/15/12 14:30	02/21/12 06:39	1
Toluene-d8 (Surr)	108		69 - 122	02/15/12 14:30	02/21/12 06:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Benzo[a]pyrene	<0.039	*	0.039	0.0071	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Benzo[b]fluoranthene	<0.039	*	0.039	0.0076	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B02**

**Lab Sample ID: 500-44301-14**

Date Collected: 02/15/12 14:30

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0094	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Di-n-octyl phthalate	<0.20	*	0.20	0.080	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B02**

**Lab Sample ID: 500-44301-14**

**Date Collected: 02/15/12 14:30**

**Matrix: Solid**

**Date Received: 02/16/12 09:40**

**Percent Solids: 83.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/20/12 17:23	02/24/12 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		27 - 113	02/20/12 17:23	02/24/12 16:03	1
2-Fluorophenol	62		30 - 110	02/20/12 17:23	02/24/12 16:03	1
Nitrobenzene-d5	60		22 - 110	02/20/12 17:23	02/24/12 16:03	1
Phenol-d5	74		26 - 112	02/20/12 17:23	02/24/12 16:03	1
Terphenyl-d14	82		33 - 129	02/20/12 17:23	02/24/12 16:03	1
2,4,6-Tribromophenol	72		30 - 137	02/20/12 17:23	02/24/12 16:03	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:27	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		02/22/12 15:45	02/23/12 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/22/12 15:45	02/23/12 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/22/12 15:45	02/23/12 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:27	1
Copper	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/22/12 15:45	02/23/12 20:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:27	1
Selenium	<0.050		0.050	0.010	mg/L		02/22/12 15:45	02/23/12 20:27	1
Silver	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:27	1
<b>Zinc</b>	<b>0.023 J</b>		0.10	0.020	mg/L		02/22/12 15:45	02/23/12 20:27	1
Iron	<0.20		0.20	0.20	mg/L		02/22/12 15:45	02/23/12 20:27	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		02/22/12 15:45	02/23/12 20:27	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		02/22/12 15:45	02/23/12 20:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/22/12 15:45	02/23/12 20:27	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.13	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Arsenic</b>	<b>8.1</b>		0.55	0.077	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Barium</b>	<b>87</b>		0.55	0.031	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Beryllium</b>	<b>0.75</b>		0.22	0.011	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Cadmium</b>	<b>0.046 J</b>		0.11	0.015	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Chromium</b>	<b>18</b>		0.55	0.047	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Copper</b>	<b>17</b>		0.55	0.077	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Lead</b>	<b>10</b>		0.28	0.13	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Nickel</b>	<b>18</b>		0.55	0.036	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Selenium</b>	<b>0.16 J</b>		0.55	0.15	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
Silver	<0.28		0.28	0.035	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Thallium</b>	<b>0.28 J</b>		0.55	0.19	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Zinc</b>	<b>40 B</b>		1.1	0.088	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Sodium</b>	<b>90 B</b>		55	2.8	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Potassium</b>	<b>890</b>		28	1.6	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
<b>Calcium</b>	<b>6900 B</b>		11	1.8	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

**Client Sample ID: 915B-5-B02**

**Lab Sample ID: 500-44301-14**

Date Collected: 02/15/12 14:30

Matrix: Solid

Date Received: 02/16/12 09:40

Percent Solids: 83.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21000	B	11	1.4	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
Vanadium	34		0.28	0.026	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
Magnesium	5800	B	5.5	1.0	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
Boron	2.0	J	2.8	0.20	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
Manganese	400		0.55	0.023	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1
Cobalt	6.5		0.28	0.022	mg/Kg	☼	02/17/12 09:11	02/22/12 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/22/12 15:45	02/24/12 15:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/22/12 15:45	02/24/12 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/22/12 09:45	02/22/12 13:15	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.019	0.0058	mg/Kg	☼	02/20/12 11:00	02/20/12 13:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.10		0.200	0.200	SU			02/21/12 20:13	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44301-1  
SDG: 500-44301-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: <b>Test America - Chicago</b> Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com
Project Name: <u>Rte 14</u> Project No.: <u>IDOT2011-03Z</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>Z</u> Lab Job No.: <u>500-44301</u> Sample Temp: <u>(28) (22)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-1-B01	2/15/12	10:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
2	915B-1-B03	2/15	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
3	915B-1-B05	2/15	10:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
4	915B-1-B07	2/15	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
5	915B-1-B09	2/15	11:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
6	915B-1-B11	2/15	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
7	915B-1-B15	2/15	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
8	915B-4-B01	2/15	1:00	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
9	915B-5-B01	2/15	1:50	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
10	915B-1-B12	2/15	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
11	915B-1-B13	2/15	11:45	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'
12	915B-1-B14	2/15	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <u>Chad Wright</u>	Date/Time: <u>2/15/12 16:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/15/12 16:20</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/15/12 17:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/16/12 07:40</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/15/12 17:45</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/16/12 07:40</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-634-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> <u>Pte 14</u> <b>Project No.:</b> <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> <u>2 of 2</u> <b>Lab Job No.:</b> <u>500-44301</u> <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-4-B01 DUP	2/15	1:15	S	✓						✓	✓	✓	✓		0-9.5
14	915B-5-B02	2/15	2:30	S	✓						✓	✓	✓	✓		0-3.5
15	915B-2-B01	2/15	3:00	S	✓						✓	✓	✓	✓		0-3.5
16	915B-1-B10	2/15	3:15	S	✓						✓	✓	✓	✓		0-3.5
17	915B-1-B10 DUP	2/15	3:30	S	✓						✓	✓	✓	✓		0-3.5
18	915B-1-B08	2/15	4:00	S	✓						✓	✓	✓	✓		0-3.5
Relinquished by: <u>Cheryl Mink</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	2/15/12 16:20pm				
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>					Date/Time	2/15/12 17:15				
Relinquished by:					Date/Time	Received by:					Date/Time	2/16/12 07:40				

September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091080

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13091080

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091080

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091080-001

Client Sample ID: 915B-5-B01

Matrix: SOLID

Collection Date: 09/20/2013 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0275</b>	mg/L	1	09/30/2013 9:57	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.237</b>	mg/L	1	09/25/2013 12:26	92207







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9309 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Door

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

Latitude: 42.26849 Longitude: -88.37969

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.26849 Longitude: -88.37969

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):

LOCATIONS 915-6-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-6. SEE FIGURE 13 AND TABLE 5f OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44345-1

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

I, Steven Gobelman, P.E., L.P.G. (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))*

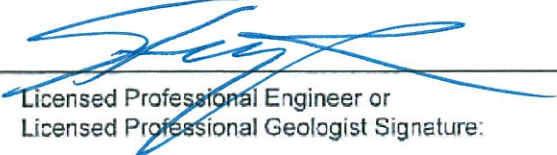
Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

7/8/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-6  
Farmstead**

Sample ID	915B-6-B01-1	915B-6-B01-2	915B-6-B02-1	915B-6-B02-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-9.5	0-5	5-9.5						
Sample Date	2/16/2012	2/16/2012	2/16/2012	2/16/2012						
PID	0	0	0	0						
Sample pH	7.15	7.5	7.97	8.55						
Matrix	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>										



# 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: 500-44345-1

TestAmerica Sample Delivery Group: 500-44345-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/20/2012 9:42:48 AM

Richard Wright

Project Manager II

[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.*

1

2

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-1**

**Lab Sample ID: 500-44345-6**

**Date Collected: 02/16/12 10:45**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Bromoform	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Carbon disulfide	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/16/12 10:45	02/21/12 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/16/12 10:45	02/21/12 12:46	1
Dibromofluoromethane	89		69 - 120	02/16/12 10:45	02/21/12 12:46	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 120	02/16/12 10:45	02/21/12 12:46	1
Toluene-d8 (Surr)	90		69 - 122	02/16/12 10:45	02/21/12 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-1**

**Lab Sample ID: 500-44345-6**

**Date Collected: 02/16/12 10:45**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.18</b>	<b>J</b>	0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-1**

**Lab Sample ID: 500-44345-6**

Date Collected: 02/16/12 10:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		27 - 113	02/21/12 18:14	02/24/12 21:23	1
2-Fluorophenol	75		30 - 110	02/21/12 18:14	02/24/12 21:23	1
Nitrobenzene-d5	76		22 - 110	02/21/12 18:14	02/24/12 21:23	1
Phenol-d5	77		26 - 112	02/21/12 18:14	02/24/12 21:23	1
Terphenyl-d14	93		33 - 129	02/21/12 18:14	02/24/12 21:23	1
2,4,6-Tribromophenol	104		30 - 137	02/21/12 18:14	02/24/12 21:23	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00084	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
alpha-BHC	<0.0021	*	0.0021	0.00054	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
alpha-Chlordane	<0.0021		0.0021	0.00055	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
beta-BHC	<0.0021		0.0021	0.00088	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
4,4'-DDD	<0.0021		0.0021	0.00065	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
4,4'-DDE	<0.0021		0.0021	0.00051	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
4,4'-DDT	<0.0021		0.0021	0.00077	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
delta-BHC	<0.0021		0.0021	0.00060	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Dieldrin	<0.0021		0.0021	0.00057	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Endosulfan I	<0.0021		0.0021	0.00059	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Endosulfan II	<0.0021		0.0021	0.00053	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Endosulfan sulfate	<0.0021		0.0021	0.00068	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Endrin	<0.0021		0.0021	0.00059	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Endrin aldehyde	<0.0021		0.0021	0.00048	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Endrin ketone	<0.0021		0.0021	0.00055	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00057	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
gamma-Chlordane	<0.0021		0.0021	0.00071	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Heptachlor	<0.0021		0.0021	0.00093	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Heptachlor epoxide	<0.0021		0.0021	0.00092	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Methoxychlor	<0.010		0.010	0.00065	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1
Toxaphene	<0.020		0.020	0.0064	mg/Kg	☼	02/22/12 07:05	02/22/12 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		43 - 126	02/22/12 07:05	02/22/12 16:48	1
Tetrachloro-m-xylene	77		32 - 111	02/22/12 07:05	02/22/12 16:48	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 02:19	1
Barium	0.42	J	0.50	0.010	mg/L		02/23/12 16:00	02/25/12 02:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 02:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 02:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:19	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-1**

**Lab Sample ID: 500-44345-6**

Date Collected: 02/16/12 10:45

Matrix: Solid

Date Received: 02/17/12 10:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 02:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:19	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:20	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:19	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 02:19	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 02:19	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 02:19	1
<b>Manganese</b>	<b>0.025</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Arsenic</b>	<b>7.7</b>		0.60	0.084	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Barium</b>	<b>110</b>		0.60	0.034	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Beryllium</b>	<b>1.0</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Chromium</b>	<b>22</b>		0.60	0.051	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Copper</b>	<b>19</b>	<b>B</b>	0.60	0.084	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Lead</b>	<b>11</b>		0.30	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Nickel</b>	<b>16</b>	<b>B</b>	0.60	0.040	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Selenium</b>	<b>0.35</b>	<b>J</b>	0.60	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
Silver	<0.30		0.30	0.038	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Thallium</b>	<b>0.48</b>	<b>J</b>	0.60	0.20	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Zinc</b>	<b>42</b>	<b>B</b>	1.2	0.096	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Sodium</b>	<b>260</b>	<b>B</b>	60	3.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Potassium</b>	<b>920</b>		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Calcium</b>	<b>2200</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Iron</b>	<b>21000</b>	<b>B</b>	12	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Vanadium</b>	<b>38</b>		0.30	0.029	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Magnesium</b>	<b>3000</b>	<b>B</b>	6.0	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Boron</b>	<b>2.8</b>	<b>J</b>	3.0	0.22	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Manganese</b>	<b>560</b>		0.60	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1
<b>Cobalt</b>	<b>8.3</b>		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 00:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:41	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.059</b>		0.020	0.0062	mg/Kg	☼	02/21/12 10:55	02/21/12 12:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.15</b>		0.200	0.200	SU			02/23/12 11:50	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-2**

**Lab Sample ID: 500-44345-7**

Date Collected: 02/16/12 11:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0021	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Benzene	<0.0042		0.0042	0.00045	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Bromodichloromethane	<0.0042		0.0042	0.00064	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Bromoform	<0.0042		0.0042	0.00068	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Bromomethane	<0.0042		0.0042	0.00090	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
2-Butanone (MEK)	<0.0042		0.0042	0.00091	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Carbon disulfide	<0.0042	*	0.0042	0.00060	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Chlorobenzene	<0.0042		0.0042	0.00066	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Chloroethane	<0.0042	*	0.0042	0.00088	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Chloroform	<0.0042		0.0042	0.00077	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Chloromethane	<0.0042		0.0042	0.00069	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00061	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00048	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Dibromochloromethane	<0.0042		0.0042	0.00058	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,2-Dichloroethane	<0.0042		0.0042	0.00043	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,1-Dichloroethene	<0.0042		0.0042	0.00066	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,2-Dichloropropane	<0.0042		0.0042	0.00095	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00048	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Ethylbenzene	<0.0042		0.0042	0.00063	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
2-Hexanone	<0.0042		0.0042	0.00060	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Methylene Chloride	<0.0042		0.0042	0.0012	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00071	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00063	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Styrene	<0.0042		0.0042	0.00053	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Tetrachloroethene	<0.0042		0.0042	0.00080	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Toluene	<0.0042		0.0042	0.00081	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00080	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00056	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Trichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Vinyl chloride	<0.0042		0.0042	0.00059	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1
Xylenes, Total	<0.0084		0.0084	0.00059	mg/Kg	☼	02/16/12 11:00	02/21/12 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/16/12 11:00	02/21/12 18:09	1
Dibromofluoromethane	93		69 - 120	02/16/12 11:00	02/21/12 18:09	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 120	02/16/12 11:00	02/21/12 18:09	1
Toluene-d8 (Surr)	89		69 - 122	02/16/12 11:00	02/21/12 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Acenaphthylene	<0.031		0.031	0.0079	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-2**

**Lab Sample ID: 500-44345-7**

**Date Collected: 02/16/12 11:00**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 90.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Benzo[k]fluoranthene	<0.034	*	0.034	0.0082	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.14</b>	<b>J</b>	0.17	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Fluorene	<0.034		0.034	0.0079	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-2**

**Lab Sample ID: 500-44345-7**

Date Collected: 02/16/12 11:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Phenol	<0.17		0.17	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		27 - 113	02/21/12 18:14	02/24/12 21:43	1
2-Fluorophenol	78		30 - 110	02/21/12 18:14	02/24/12 21:43	1
Nitrobenzene-d5	79		22 - 110	02/21/12 18:14	02/24/12 21:43	1
Phenol-d5	80		26 - 112	02/21/12 18:14	02/24/12 21:43	1
Terphenyl-d14	103		33 - 129	02/21/12 18:14	02/24/12 21:43	1
2,4,6-Tribromophenol	117		30 - 137	02/21/12 18:14	02/24/12 21:43	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0019		0.0019	0.00076	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
alpha-BHC	<0.0019	*	0.0019	0.00049	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
alpha-Chlordane	<0.0019		0.0019	0.00050	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
beta-BHC	<0.0019		0.0019	0.00080	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
4,4'-DDD	<0.0019		0.0019	0.00059	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
4,4'-DDE	<0.0019		0.0019	0.00046	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
4,4'-DDT	<0.0019		0.0019	0.00070	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
delta-BHC	<0.0019		0.0019	0.00054	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Dieldrin	<0.0019		0.0019	0.00051	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Endosulfan I	<0.0019		0.0019	0.00053	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Endosulfan II	<0.0019		0.0019	0.00048	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Endosulfan sulfate	<0.0019		0.0019	0.00061	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Endrin	<0.0019		0.0019	0.00053	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Endrin aldehyde	<0.0019		0.0019	0.00044	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Endrin ketone	<0.0019		0.0019	0.00050	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
gamma-BHC (Lindane)	<0.0019		0.0019	0.00051	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
gamma-Chlordane	<0.0019		0.0019	0.00064	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Heptachlor	<0.0019		0.0019	0.00084	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Heptachlor epoxide	<0.0019		0.0019	0.00083	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Methoxychlor	<0.0090		0.0090	0.00059	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1
Toxaphene	<0.018		0.018	0.0058	mg/Kg	☼	02/22/12 07:05	02/22/12 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		43 - 126	02/22/12 07:05	02/22/12 17:08	1
Tetrachloro-m-xylene	77		32 - 111	02/22/12 07:05	02/22/12 17:08	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 02:26	1
Barium	0.52		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 02:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 02:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:26	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B01-2**

**Lab Sample ID: 500-44345-7**

Date Collected: 02/16/12 11:00

Matrix: Solid

Date Received: 02/17/12 10:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 02:26	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:26	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:26	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:26	1
<b>Zinc</b>	<b>0.037</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 02:26	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 02:26	1
<b>Boron</b>	<b>1.0</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 02:26	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:26	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.12	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Arsenic</b>	<b>3.7</b>		0.50	0.070	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Barium</b>	<b>23</b>		0.50	0.028	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Beryllium</b>	<b>0.41</b>		0.20	0.010	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Cadmium</b>	<b>0.19</b>		0.10	0.014	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Chromium</b>	<b>13</b>		0.50	0.043	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Copper</b>	<b>12</b>	<b>B</b>	0.50	0.070	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Lead</b>	<b>3.4</b>		0.25	0.12	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Nickel</b>	<b>7.6</b>	<b>B</b>	0.50	0.033	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
Silver	<0.25		0.25	0.032	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
Thallium	<0.50		0.50	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Zinc</b>	<b>21</b>	<b>B</b>	1.0	0.080	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Sodium</b>	<b>300</b>	<b>B</b>	50	2.6	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Potassium</b>	<b>600</b>		25	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Calcium</b>	<b>67000</b>	<b>B E</b>	10	1.6	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Iron</b>	<b>9000</b>	<b>B</b>	10	1.3	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Vanadium</b>	<b>15</b>		0.25	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Magnesium</b>	<b>40000</b>	<b>B</b>	5.0	0.91	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Boron</b>	<b>4.7</b>		2.5	0.18	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Manganese</b>	<b>370</b>		0.50	0.021	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1
<b>Cobalt</b>	<b>3.4</b>		0.25	0.020	mg/Kg	☼	02/22/12 09:00	02/23/12 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0057</b>	<b>J</b>	0.017	0.0053	mg/Kg	☼	02/21/12 10:55	02/21/12 12:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.50</b>		0.200	0.200	SU			02/23/12 11:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-1**

**Lab Sample ID: 500-44345-8**

Date Collected: 02/16/12 12:30

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Bromoform	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Carbon disulfide	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Chloroform	<0.0049		0.0049	0.00089	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/16/12 12:30	02/21/12 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/16/12 12:30	02/21/12 13:36	1
Dibromofluoromethane	95		69 - 120	02/16/12 12:30	02/21/12 13:36	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 120	02/16/12 12:30	02/21/12 13:36	1
Toluene-d8 (Surr)	92		69 - 122	02/16/12 12:30	02/21/12 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0083	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
<b>Benzo[b]fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-1**

**Lab Sample ID: 500-44345-8**

Date Collected: 02/16/12 12:30

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.017</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
<b>Benzo[k]fluoranthene</b>	<b>0.011</b>	<b>J *</b>	0.039	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
<b>Chrysene</b>	<b>0.017</b>	<b>J</b>	0.039	0.0089	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
<b>Fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-1**

**Lab Sample ID: 500-44345-8**

Date Collected: 02/16/12 12:30

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/21/12 18:14	02/24/12 22:03	1
2-Fluorophenol	70		30 - 110	02/21/12 18:14	02/24/12 22:03	1
Nitrobenzene-d5	70		22 - 110	02/21/12 18:14	02/24/12 22:03	1
Phenol-d5	72		26 - 112	02/21/12 18:14	02/24/12 22:03	1
Terphenyl-d14	106		33 - 129	02/21/12 18:14	02/24/12 22:03	1
2,4,6-Tribromophenol	118		30 - 137	02/21/12 18:14	02/24/12 22:03	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00085	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
alpha-BHC	<0.0021	*	0.0021	0.00054	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
alpha-Chlordane	<0.0021		0.0021	0.00056	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
beta-BHC	<0.0021		0.0021	0.00088	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
4,4'-DDD	<0.0021		0.0021	0.00065	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
4,4'-DDE	<0.0021		0.0021	0.00051	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
<b>4,4'-DDT</b>	<b>0.0016</b>	<b>J</b>	0.0021	0.00078	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
delta-BHC	<0.0021		0.0021	0.00061	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Dieldrin	<0.0021		0.0021	0.00057	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Endosulfan I	<0.0021		0.0021	0.00059	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Endosulfan II	<0.0021		0.0021	0.00053	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Endosulfan sulfate	<0.0021		0.0021	0.00068	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Endrin	<0.0021		0.0021	0.00059	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Endrin aldehyde	<0.0021		0.0021	0.00048	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Endrin ketone	<0.0021		0.0021	0.00056	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00057	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
gamma-Chlordane	<0.0021		0.0021	0.00071	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Heptachlor	<0.0021		0.0021	0.00093	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Heptachlor epoxide	<0.0021		0.0021	0.00092	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Methoxychlor	<0.010		0.010	0.00065	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1
Toxaphene	<0.020		0.020	0.0064	mg/Kg	☼	02/22/12 07:05	02/22/12 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		43 - 126	02/22/12 07:05	02/22/12 17:28	1
Tetrachloro-m-xylene	78		32 - 111	02/22/12 07:05	02/22/12 17:28	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 02:46	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 02:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 02:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 02:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:46	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:46	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-1**

**Lab Sample ID: 500-44345-8**

Date Collected: 02/16/12 12:30

Matrix: Solid

Date Received: 02/17/12 10:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0055	J	0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 02:46	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:46	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:47	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:46	1
Zinc	0.048	J	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 02:46	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 02:46	1
Boron	0.99		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 02:46	1
Manganese	0.80		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:46	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Arsenic	6.7		0.60	0.085	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Barium	68		0.60	0.034	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Beryllium	0.83		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Cadmium	0.088	J	0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Chromium	19		0.60	0.051	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Copper	18	B	0.60	0.085	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Lead	23		0.30	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Nickel	14	B	0.60	0.040	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Silver	<0.30		0.30	0.038	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Thallium	0.32	J	0.60	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Zinc	45	B	1.2	0.097	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Sodium	2200	B	60	3.1	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Potassium	1100		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Calcium	8200	B	12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Iron	18000	B	12	1.6	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Vanadium	33		0.30	0.029	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Magnesium	6300	B	6.0	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Boron	3.3		3.0	0.22	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Manganese	340		0.60	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1
Cobalt	5.0		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 15:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.019	0.0060	mg/Kg	☼	02/21/12 10:55	02/21/12 12:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			02/23/12 11:58	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-2**

**Lab Sample ID: 500-44345-9**

Date Collected: 02/16/12 13:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Benzene	<0.0049		0.0049	0.00052	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Bromoform	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
2-Butanone (MEK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Carbon disulfide	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Chloroform	<0.0049		0.0049	0.00089	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/16/12 13:00	02/21/12 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/16/12 13:00	02/21/12 14:01	1
Dibromofluoromethane	94		69 - 120	02/16/12 13:00	02/21/12 14:01	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 120	02/16/12 13:00	02/21/12 14:01	1
Toluene-d8 (Surr)	91		69 - 122	02/16/12 13:00	02/21/12 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Acenaphthylene	<0.032		0.032	0.0081	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-2**

**Lab Sample ID: 500-44345-9**

**Date Collected: 02/16/12 13:00**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 93.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Benzo[k]fluoranthene	<0.035	*	0.035	0.0084	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.084</b>	<b>J</b>	0.18	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-2**

**Lab Sample ID: 500-44345-9**

**Date Collected: 02/16/12 13:00**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 93.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Phenol	<0.18		0.18	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		27 - 113	02/21/12 18:14	02/24/12 22:23	1
2-Fluorophenol	53		30 - 110	02/21/12 18:14	02/24/12 22:23	1
Nitrobenzene-d5	57		22 - 110	02/21/12 18:14	02/24/12 22:23	1
Phenol-d5	57		26 - 112	02/21/12 18:14	02/24/12 22:23	1
Terphenyl-d14	74		33 - 129	02/21/12 18:14	02/24/12 22:23	1
2,4,6-Tribromophenol	65		30 - 137	02/21/12 18:14	02/24/12 22:23	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0017		0.0017	0.00071	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
alpha-BHC	<0.0017	*	0.0017	0.00046	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
alpha-Chlordane	<0.0017		0.0017	0.00047	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
beta-BHC	<0.0017		0.0017	0.00074	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
4,4'-DDD	<0.0017		0.0017	0.00055	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
4,4'-DDE	<0.0017		0.0017	0.00043	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
4,4'-DDT	<0.0017		0.0017	0.00065	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
delta-BHC	<0.0017		0.0017	0.00051	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Dieldrin	<0.0017		0.0017	0.00048	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Endosulfan I	<0.0017		0.0017	0.00050	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Endosulfan II	<0.0017		0.0017	0.00045	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Endosulfan sulfate	<0.0017		0.0017	0.00057	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Endrin	<0.0017		0.0017	0.00050	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Endrin aldehyde	<0.0017		0.0017	0.00041	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Endrin ketone	<0.0017		0.0017	0.00047	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
gamma-BHC (Lindane)	<0.0017		0.0017	0.00048	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
gamma-Chlordane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Heptachlor	<0.0017		0.0017	0.00078	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Heptachlor epoxide	<0.0017		0.0017	0.00077	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Methoxychlor	<0.0085		0.0085	0.00055	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1
Toxaphene	<0.017		0.017	0.0054	mg/Kg	☼	02/22/12 07:05	02/22/12 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		43 - 126	02/22/12 07:05	02/22/12 17:49	1
Tetrachloro-m-xylene	83		32 - 111	02/22/12 07:05	02/22/12 17:49	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 02:53	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.010	mg/L		02/23/12 16:00	02/25/12 02:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 02:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 02:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:53	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-6-B02-2**

**Lab Sample ID: 500-44345-9**

Date Collected: 02/16/12 13:00

Matrix: Solid

Date Received: 02/17/12 10:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 02:53	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:53	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:53	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:53	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 02:53	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 02:53	1
<b>Boron</b>	<b>0.84</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 02:53	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 02:53	1
<b>Cobalt</b>	<b>0.0073</b>	<b>J</b>	0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 02:53	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.12	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Arsenic</b>	<b>5.3</b>		0.51	0.071	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Barium</b>	<b>18</b>		0.51	0.029	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Beryllium</b>	<b>0.31</b>		0.20	0.010	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Cadmium</b>	<b>0.21</b>		0.10	0.014	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Chromium</b>	<b>14</b>		0.51	0.043	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Copper</b>	<b>15</b>	<b>B</b>	0.51	0.071	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Lead</b>	<b>6.6</b>		0.25	0.12	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Nickel</b>	<b>8.9</b>	<b>B</b>	0.51	0.034	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
Selenium	<0.51		0.51	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
Silver	<0.25		0.25	0.032	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
Thallium	<0.51		0.51	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Zinc</b>	<b>41</b>	<b>B</b>	1.0	0.082	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Sodium</b>	<b>790</b>	<b>B</b>	51	2.6	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Potassium</b>	<b>630</b>		25	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Calcium</b>	<b>70000</b>	<b>B E</b>	10	1.6	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Iron</b>	<b>11000</b>	<b>B</b>	10	1.3	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Vanadium</b>	<b>17</b>		0.25	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Magnesium</b>	<b>41000</b>	<b>B</b>	5.1	0.92	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Boron</b>	<b>4.8</b>		2.5	0.18	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Manganese</b>	<b>270</b>		0.51	0.021	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1
<b>Cobalt</b>	<b>3.4</b>		0.25	0.020	mg/Kg	☼	02/22/12 09:00	02/23/12 01:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 16:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:50	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0051	mg/Kg	☼	02/21/12 10:55	02/21/12 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.55</b>		0.200	0.200	SU			02/23/12 12:02	1

## Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

#### GC/MS Semi VOA

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

#### GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the 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.
E	Result exceeded calibration range.
L	A negative instrument reading had an absolute value greater than the reporting limit
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than 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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>506-44345</u> Sample Temp: <u>(26) (23)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization	
1	915B-1-B06	2/16/12	8:30	S	✓							✓	✓	✓			0-3.5'
2	915B-1-B02	2/16	9:00	S	✓							✓	✓	✓			0-3.5'
3	915B-1-B04	2/16	8:45	S	✓							✓	✓	✓			0-3.5'
4	915B-3-B01	2/16	9:20	S	✓							✓	✓	✓			0-9.5'
5	915B-3-B02	2/16	9:40	S	✓							✓	✓	✓			0-9.5'
6	915B-6-B01-1	2/16	10:45	S	✓							✓	✓	✓			0-5'
7	915B-6-B01-2	2/16	11:00	S	✓							✓	✓	✓			5-9.5'
8	915B-6-B02-1	2/16	12:30	S	✓							✓	✓	✓			0-5'
9	915B-6-B02-2	2/16	1:00	S	✓							✓	✓	✓			5-9.5'
10	915B-7-B01	2/16/12	1:20	S	✓							✓	✓	✓			0-3.5'
11	915B-7-B03	2/16	1:45	S	✓							✓	✓	✓			0-6.5'
12	915B-7-B03N/A	2/16	2:15	S	✓							✓	✓	✓			0-6.5'
Relinquished by: <u>Chad</u>					Received by: <u>Chad</u>					Date/Time: <u>2/16/12 16:15</u>					Date/Time: <u>2/16/12 16:15</u>		
Relinquished by: <u>Colleen Grey</u>					Received by: <u>JA</u>					Date/Time: <u>2/16/12 17:30</u>					Date/Time: <u>2/16/12 18:00</u>		
Relinquished by:					Received by:					Date/Time:					Date/Time:		





CHAIN OF CUSTODY RECORD

**Client Contact**  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711  
217-787-2334  
Contact: Colleen Grey  
email: cgrey@andrews-eng.com

**Laboratory**  
Lab: Test America - Chicago  
Address: 2417 Bond Street  
University Park, IL 60484  
Phone: 708-534-5200  
Contact: Dick Wright  
email: richard.wright@testamericainc.com

Project Name: RFE 14  
Project No.: IDOT2011-032  
TAT:  5 BD  10 BD  5 BD  2 BD  Other

Sampler: \_\_\_\_\_

COC No.: 2 of 2  
Lab Job No.: 500-49345  
Sample Temp: \_\_\_\_\_

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments	Date/Time
13	915B-7-B05	2/16/12	2:40	S	✓	✓					✓	✓	✓	✓		0-9.5'	2/16/12
14	915B-7-B06	2/16	3:00	S	✓	✓					✓	✓	✓	✓		0-9.5'	2/16/12
15	915B-7-B07	2/16	3:20	S	✓	✓					✓	✓	✓	✓		0-9.5'	2/16/12
16	915B-11-B03-1	2/16	3:45	S	✓	✓					✓	✓	✓	✓		0-4'	2/16/12
17	915B-11-B03-2	2/16	4:00	S	✓	✓					✓	✓	✓	✓		4-6.5'	2/16/12

**Analyses**

Matrix Key:	W - Water	S - Soil	SL - Sludge	SE - Sediment	L - Leachate	DW - Drinking Water	OL - Oil	O - Other
-------------	-----------	----------	-------------	---------------	--------------	---------------------	----------	-----------

Relinquished by: *[Signature]* Date/Time: 2/16/12 1:30  
Relinquished by: *[Signature]* Date/Time: 2/16/12 1:30  
Relinquished by: *[Signature]* Date/Time: 2/16/12 1:30

Received by: *[Signature]* Date/Time: 2/16/12 2:15  
Received by: *[Signature]* Date/Time: 2/16/12 1:30  
Received by: *[Signature]* Date/Time: 2/16/12 1:30



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9300 - 9400 block of US 41

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27189 Longitude: -88.38270

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27189 Longitude: -88.38270

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):

LOCATIONS 915B-7-B01 AND -B03 THROUGH -B08 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-7. SEE FIGURES 11 AND 12 AND TABLE 5g OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44416-1, 500-44374-1 AND 500-44345-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER:13091081

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

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

7/8/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISGS Site 915B-7  
Agricultural Fields**

Sample ID	915B-7-B01	915B-7-B03	915B-7-B03 DUP	915B-7-B04						
Sample Depth (ft)	0-3.5	0-6.5	0-6.5	0-6.5						
Sample Date	2/16/2012	2/16/2012	2/16/2012	2/22/2012						
PID	0	0	0	0						
Sample pH	7.98	7.02	7.57	6.6						
Matrix	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (mg/kg)</b>					<b>12</b>	<b>1.3</b>				
Arsenic	8.1	8.9	7			11.3	NA	11.3	NA	13

Sample ID	915B-7-B05	915B-7-B06	915B-7-B07	915B-7-B08						
Sample Depth (ft)	0-9.5	0-9.5	0-9.5	0-9.5						
Sample Date	2/16/2012	2/16/2012	2/16/2012	2/20/2012						
PID	0	0	0	0						
Sample pH	8.46	7.43	8.83	7.31						
Matrix	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (mg/kg)</b>										
Arsenic	4.1	8.2	2.4	8.5		11.3	NA	11.3	NA	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: 500-44416-1

TestAmerica Sample Delivery Group: 500-44416-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:20:03 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-7-B04**

**Lab Sample ID: 500-44416-2**

Date Collected: 02/22/12 08:50

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0024	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Bromoform	<0.0048	*	0.0048	0.00078	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
2-Hexanone	<0.0048	*	0.0048	0.00068	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
4-Methyl-2-pentanone (MIBK)	<0.0048	*	0.0048	0.00082	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Styrene	<0.0048		0.0048	0.00061	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/22/12 08:50	02/27/12 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		67 - 120	02/22/12 08:50	02/27/12 18:47	1
Dibromofluoromethane	100		69 - 120	02/22/12 08:50	02/27/12 18:47	1
1,2-Dichloroethane-d4 (Surr)	100		69 - 120	02/22/12 08:50	02/27/12 18:47	1
Toluene-d8 (Surr)	109		69 - 122	02/22/12 08:50	02/27/12 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-7-B04**

**Lab Sample ID: 500-44416-2**

**Date Collected: 02/22/12 08:50**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-7-B04**

**Lab Sample ID: 500-44416-2**

**Date Collected: 02/22/12 08:50**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		27 - 113	02/24/12 07:23	03/02/12 16:01	1
2-Fluorophenol	97		30 - 110	02/24/12 07:23	03/02/12 16:01	1
Nitrobenzene-d5	92		22 - 110	02/24/12 07:23	03/02/12 16:01	1
Phenol-d5	90		26 - 112	02/24/12 07:23	03/02/12 16:01	1
Terphenyl-d14	103		33 - 129	02/24/12 07:23	03/02/12 16:01	1
2,4,6-Tribromophenol	96		30 - 137	02/24/12 07:23	03/02/12 16:01	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:34	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 20:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 20:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 20:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:34	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:34	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 20:34	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:34	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:34	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:34	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 20:34	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 20:34	1
<b>Boron</b>	<b>1.3</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 20:34	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:34	1
<b>Cobalt</b>	<b>0.0077</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.7		5.7	0.76	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Arsenic</b>	<b>12</b>		2.9	0.62	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Barium</b>	<b>88</b>		2.9	0.34	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Beryllium</b>	<b>0.93</b>	<b>J</b>	1.1	0.084	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Cadmium	<0.57		0.57	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Chromium</b>	<b>18</b>		2.9	0.48	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Copper</b>	<b>18</b>		2.9	0.77	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Lead</b>	<b>11</b>		1.4	0.49	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Nickel</b>	<b>21</b>		2.9	0.63	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Selenium	<2.9		2.9	0.82	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Silver	<1.4		1.4	0.17	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Thallium</b>	<b>1.1</b>	<b>J</b>	2.9	0.73	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Zinc</b>	<b>43</b>		5.7	2.0	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Sodium</b>	<b>130</b>	<b>J</b>	290	52	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Potassium</b>	<b>870</b>	<b>B</b>	140	16	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
<b>Calcium</b>	<b>21000</b>	<b>B</b>	57	10	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-7-B04**

**Lab Sample ID: 500-44416-2**

Date Collected: 02/22/12 08:50

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000		57	25	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Vanadium	31		1.4	0.22	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Magnesium	14000	B	29	5.5	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Boron	3.2	J	14	2.7	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Manganese	590		2.9	0.40	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5
Cobalt	6.6		1.4	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 13:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 11:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:30	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0058	mg/Kg	☼	02/24/12 08:35	02/24/12 12:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.60		0.200	0.200	SU			02/29/12 11:16	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
X	Surrogate is outside control limits
*	LCS or 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-44416</u> Sample Temp: <u>(3.1) (3.6)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-7-B02	2/22	8:30	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
2	915B-7-B04	2/22	8:50	S	✓	✓					✓	✓	✓	✓	✓	✓	0-6.5'
3	915B-8-B01	2/22	9:20	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
4	915B-8-B02	2/22	10:20	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
5	915B-8-B03	2/22	10:30	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
6	915B-8-B04	2/22	10:45	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
7	915B-9-B01	2/22	11:00	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
8	915B-10-B01	2/22	11:30	S	✓	✓			✓	✓		✓	✓	✓	✓	✓	0-3.5'
9	915B-10-B01-DUP	2/22	11:45	S	✓	✓			✓	✓		✓	✓	✓	✓	✓	0-3.5'
10	915B-10-B02	2/22	1:15	S	✓	✓			✓	✓		✓	✓	✓	✓	✓	0-3.5'
11	915B-10-B03	2/22	1:30	S	✓	✓			✓	✓		✓	✓	✓	✓	✓	0-3.5'
12	915B-10-B04	2/22	1:45	S	✓	✓			✓	✓		✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 07:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Blank]</u>	Received by: <u>[Blank]</u>	Date/Time: <u>[Blank]</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Name: <u>PRE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-49916</u> Sample Temp: _____														
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Matrix Key:</b> W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other															
<b>ANALYSES</b>																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments	
13	915B-10-B05	2/22	2:00	S	✓		✓	✓			✓	✓	✓	✓		0-3.5'	
14	915B-12-B01-1	2/22	2:45	S	✓						✓	✓	✓	✓		0-4'	
15	915B-12-B01-2	2/22	3:00	S	✓						✓	✓	✓	✓		4-6.5'	
16	915B-12-B02-1	2/22	3:15	S	✓						✓	✓	✓	✓		0-4'	
17	915B-12-B02-2	2/22	3:30	S	✓						✓	✓	✓	✓		4-6.5'	
18	915B-16-B02	2/22	3:45	S	✓						✓	✓	✓	✓		0-6.5'	
19	915B-12-B03-1	2/22	3:55	S	✓						✓	✓	✓	✓		0-4'	
20	915B-12-B03-2	2/22	4:00	S	✓						✓	✓	✓	✓		4-6.5'	
Relinquished by: <u>[Signature]</u>					Date/Time	2/22/12 16:00											
Relinquished by: <u>[Signature]</u>					Date/Time	2-22-12 17:55											
Relinquished by: <u>[Signature]</u>					Date/Time	2/22/12 16:00											

# 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: 500-44374-1  
TestAmerica Sample Delivery Group: 500-44374-1  
Client Project/Site: IDOT - US 14 - WO 032  
Revision: 1

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
9/20/2012 11:23:03 AM

Richard Wright  
Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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results through  
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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-7-B08**

**Lab Sample ID: 500-44374-3**

Date Collected: 02/20/12 09:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Bromodichloromethane	<0.0050		0.0050	0.00077	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Bromoform	<0.0050		0.0050	0.00082	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Carbon disulfide	<0.0050		0.0050	0.00072	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Chlorobenzene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Chloroform	<0.0050		0.0050	0.00093	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Chloromethane	<0.0050		0.0050	0.00083	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00074	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00058	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Dibromochloromethane	<0.0050		0.0050	0.00070	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00058	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Ethylbenzene	<0.0050		0.0050	0.00076	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
2-Hexanone	<0.0050		0.0050	0.00072	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00086	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00076	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Styrene	<0.0050		0.0050	0.00064	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Tetrachloroethene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Toluene	<0.0050		0.0050	0.00098	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00072	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Vinyl chloride	<0.0050		0.0050	0.00071	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/20/12 09:45	02/24/12 10:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		67 - 120	02/20/12 09:45	02/24/12 10:32	1
Dibromofluoromethane	95		69 - 120	02/20/12 09:45	02/24/12 10:32	1
1,2-Dichloroethane-d4 (Surr)	89		69 - 120	02/20/12 09:45	02/24/12 10:32	1
Toluene-d8 (Surr)	109		69 - 122	02/20/12 09:45	02/24/12 10:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-7-B08**

**Lab Sample ID: 500-44374-3**

Date Collected: 02/20/12 09:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
<b>Dibenz(a,h)anthracene</b>	<b>0.011</b>	<b>J</b>	0.040	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.19	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.013</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-7-B08**

**Lab Sample ID: 500-44374-3**

Date Collected: 02/20/12 09:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Phenanthrene	<0.040	*	0.040	0.017	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		27 - 113	02/22/12 07:07	02/27/12 21:17	1
2-Fluorophenol	65		30 - 110	02/22/12 07:07	02/27/12 21:17	1
Nitrobenzene-d5	66		22 - 110	02/22/12 07:07	02/27/12 21:17	1
Phenol-d5	68		26 - 112	02/22/12 07:07	02/27/12 21:17	1
Terphenyl-d14	79		33 - 129	02/22/12 07:07	02/27/12 21:17	1
2,4,6-Tribromophenol	71		30 - 137	02/22/12 07:07	02/27/12 21:17	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:13	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:13	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:13	1
<b>Lead</b>	<b>0.0079</b>		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:13	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:13	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:13	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:13	1
<b>Zinc</b>	<b>0.023 J</b>		0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:13	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:13	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:13	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Arsenic</b>	<b>8.5</b>		0.61	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Barium</b>	<b>58</b>		0.61	0.072	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Beryllium</b>	<b>0.65</b>		0.24	0.018	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Cadmium</b>	<b>0.15</b>		0.12	0.030	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Chromium</b>	<b>15</b>		0.61	0.10	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Copper</b>	<b>16</b>		0.61	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Lead</b>	<b>11</b>		0.30	0.10	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Nickel</b>	<b>14</b>		0.61	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
Selenium	<0.61		0.61	0.17	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Thallium</b>	<b>0.19 J</b>		0.61	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Zinc</b>	<b>34</b>		1.2	0.42	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Sodium</b>	<b>70</b>		61	11	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Potassium</b>	<b>810</b>		30	3.4	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
<b>Calcium</b>	<b>19000 B</b>		12	2.1	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-7-B08**

**Lab Sample ID: 500-44374-3**

Date Collected: 02/20/12 09:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000		12	5.3	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
Vanadium	27		0.30	0.046	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
Magnesium	13000	B	6.1	1.2	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
Boron	1.6	J	3.0	0.57	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
Manganese	470		0.61	0.086	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1
Cobalt	6.9		0.30	0.032	mg/Kg	☼	02/22/12 14:30	02/24/12 04:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 12:53	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.019	0.0059	mg/Kg	☼	02/22/12 07:55	02/22/12 10:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.31		0.200	0.200	SU			02/24/12 13:40	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	LCS or LCSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-634-5200 Contact: Dick Wright email: richard.wright@testamerica.com
		Project Name: <u>Pte 14</u>	COC No.: <u>1</u> of <u>3</u>
		Project No.: <u>IDOT2011-032</u>	Lab Job No.: <u>500-4A374</u>
		TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Sample Temp.: <u>(3.2)(3.7)(3.5)</u>
		<b>Sampler:</b>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-11-B01-1	2/20/12	8:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
2	915B-11-B01-2	2/20	8:50	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
3	915B-7-B08	2/20	9:45	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
4	915B-11-B02-1	2/20	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
5	915B-11-B02-2	2/20	10:30	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
6	915B-11-B04-1	2/20	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-4'
7	915B-11-B04-2	2/20	11:00	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
8	915B-11-B06-1	2/20	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
9	915B-11-B06-1Dup	2/20	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
10	915B-11-B06-2	2/20	11:45	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
11	915B-11-B08-1	2/20	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-4'
12	915B-11-B08-2	2/20	12:15	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'

Received by: [Signature] Date/Time: 2-20-12 16:00

Relinquished by: [Signature] Date/Time: 2-20-12 16:00

Relinquished by: [Signature] Date/Time: 2-20-12 15:00



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>RTD</u>	<b>COC No.:</b> <u>2</u> of <u>3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project No.: IDOT2011-032 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-44374</u> Sample Temp:

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
13	915B-11-809-1	2/20	12:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
14	915B-11-809-2	2/20	12:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
15	915B-11-805-1	2/20	1:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
16	915B-11-805-2	2/20	1:15	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
17	915B-11-807-1	2/20	1:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
18	915B-11-807-2	2/20	1:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
19	915B-16-303	2/20	2:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
20	915B-16-305	2/20	2:20	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
21	915B-16-308	2/20	2:40	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
22	915B-17-301	2/20	3:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
23	915B-18-301	2/20	3:10	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
24	915B-19-301	2/20	3:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>

# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> <u>Rte 19</u> <b>Project No.:</b> <u>DOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> <u>3</u> of <u>3</u> <b>Lab Job No.:</b> <u>500-9437A</u> <b>Sample Temp:</b> _____											
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>													
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments	
25	915B-19-601	2/20	4:00	W	✓						✓		✓			14.0	
26	TRIP BLANK	2/20		W													2 valves T.B.
Relinquished by: <u>[Signature]</u>				Date/Time: <u>2/20/12 16:00</u>	Received by: <u>[Signature]</u>				Date/Time: <u>2-20-12 16:00</u>								
Relinquished by: <u>[Signature]</u>				Date/Time: <u>2-20-12 18:14</u>	Received by: <u>[Signature]</u>				Date/Time: <u>2/20/12 18:00</u>								
Relinquished by: _____				Date/Time: _____	Received by: _____				Date/Time: _____								





# 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: 500-44345-1

TestAmerica Sample Delivery Group: 500-44345-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/20/2012 9:42:48 AM

Richard Wright

Project Manager II

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

### 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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B01**

**Lab Sample ID: 500-44345-10**

Date Collected: 02/16/12 13:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Bromoform	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Carbon disulfide	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/16/12 13:20	02/21/12 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		67 - 120	02/16/12 13:20	02/21/12 14:26	1
Dibromofluoromethane	98		69 - 120	02/16/12 13:20	02/21/12 14:26	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 120	02/16/12 13:20	02/21/12 14:26	1
Toluene-d8 (Surr)	92		69 - 122	02/16/12 13:20	02/21/12 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Acenaphthylene	<0.037		0.037	0.0095	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B01**

**Lab Sample ID: 500-44345-10**

**Date Collected: 02/16/12 13:20**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Benzo[k]fluoranthene	<0.041	*	0.041	0.0099	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Chrysene	<0.041		0.041	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B01**

**Lab Sample ID: 500-44345-10**

**Date Collected: 02/16/12 13:20**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Phenol	<0.21		0.21	0.066	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		27 - 113	02/21/12 18:14	02/24/12 22:43	1
2-Fluorophenol	90		30 - 110	02/21/12 18:14	02/24/12 22:43	1
Nitrobenzene-d5	57		22 - 110	02/21/12 18:14	02/24/12 22:43	1
Phenol-d5	67		26 - 112	02/21/12 18:14	02/24/12 22:43	1
Terphenyl-d14	82		33 - 129	02/21/12 18:14	02/24/12 22:43	1
2,4,6-Tribromophenol	99		30 - 137	02/21/12 18:14	02/24/12 22:43	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 03:18	1
<b>Barium</b>	<b>0.69</b>		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 03:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 03:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 03:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:18	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 03:18	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:18	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 19:59	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:18	1
<b>Zinc</b>	<b>0.026 J</b>		0.10	0.020	mg/L		02/23/12 16:00	02/25/12 03:18	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 03:18	1
<b>Boron</b>	<b>0.87</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 03:18	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:18	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Arsenic</b>	<b>8.1</b>		0.61	0.085	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Barium</b>	<b>92</b>		0.61	0.034	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Beryllium</b>	<b>0.90</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Cadmium</b>	<b>0.17</b>		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Chromium</b>	<b>19</b>		0.61	0.052	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Copper</b>	<b>17 B</b>		0.61	0.085	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Lead</b>	<b>13</b>		0.30	0.15	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Nickel</b>	<b>18 B</b>		0.61	0.040	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
Selenium	<0.61		0.61	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
Silver	<0.30		0.30	0.038	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Thallium</b>	<b>0.33 J</b>		0.61	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Zinc</b>	<b>50 B</b>		1.2	0.097	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Sodium</b>	<b>1200 B</b>		61	3.1	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Potassium</b>	<b>1300</b>		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
<b>Calcium</b>	<b>16000 B</b>		12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
 SDG: 500-44345-1

**Client Sample ID: 915B-7-B01**

**Lab Sample ID: 500-44345-10**

Date Collected: 02/16/12 13:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21000	B	12	1.6	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
Vanadium	40		0.30	0.029	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
Magnesium	11000	B	6.1	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
Boron	4.1		3.0	0.22	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
Manganese	550		0.61	0.026	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1
Cobalt	7.3		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 16:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:52	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.019	0.0057	mg/Kg	☼	02/21/12 10:55	02/21/12 12:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			02/23/12 12:06	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03**

**Lab Sample ID: 500-44345-11**

Date Collected: 02/16/12 13:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0023	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Bromoform	<0.0048		0.0048	0.00078	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Carbon disulfide	<0.0048	*	0.0048	0.00068	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Chloroethane	<0.0048	*	0.0048	0.0010	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00081	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/16/12 13:45	02/21/12 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/16/12 13:45	02/21/12 14:50	1
Dibromofluoromethane	91		69 - 120	02/16/12 13:45	02/21/12 14:50	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 120	02/16/12 13:45	02/21/12 14:50	1
Toluene-d8 (Surr)	89		69 - 122	02/16/12 13:45	02/21/12 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03**

**Lab Sample ID: 500-44345-11**

**Date Collected: 02/16/12 13:45**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Benzo[k]fluoranthene	<0.040	*	0.040	0.0095	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03**

**Lab Sample ID: 500-44345-11**

Date Collected: 02/16/12 13:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		27 - 113	02/21/12 18:14	02/24/12 23:03	1
2-Fluorophenol	49		30 - 110	02/21/12 18:14	02/24/12 23:03	1
Nitrobenzene-d5	41		22 - 110	02/21/12 18:14	02/24/12 23:03	1
Phenol-d5	38		26 - 112	02/21/12 18:14	02/24/12 23:03	1
Terphenyl-d14	73		33 - 129	02/21/12 18:14	02/24/12 23:03	1
2,4,6-Tribromophenol	89		30 - 137	02/21/12 18:14	02/24/12 23:03	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 03:24	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.010	mg/L		02/23/12 16:00	02/25/12 03:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 03:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 03:24	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:24	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 03:24	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:24	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 20:05	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:24	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 03:24	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 03:24	1
<b>Boron</b>	<b>0.91</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 03:24	1
<b>Manganese</b>	<b>0.035</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:24	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:24	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Arsenic</b>	<b>8.9</b>		0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Barium</b>	<b>96</b>		0.59	0.033	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Beryllium</b>	<b>0.83</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Chromium</b>	<b>19</b>		0.59	0.050	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Copper</b>	<b>19</b>	<b>B</b>	0.59	0.083	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Lead</b>	<b>13</b>		0.29	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Nickel</b>	<b>18</b>	<b>B</b>	0.59	0.039	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Silver	<0.29		0.29	0.037	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Thallium</b>	<b>0.31</b>	<b>J</b>	0.59	0.20	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Zinc</b>	<b>47</b>	<b>B</b>	1.2	0.094	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Sodium</b>	<b>1100</b>	<b>B</b>	59	3.0	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Potassium</b>	<b>1100</b>		29	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
<b>Calcium</b>	<b>2100</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03**

**Lab Sample ID: 500-44345-11**

Date Collected: 02/16/12 13:45

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	23000	B	12	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Vanadium	36		0.29	0.028	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Magnesium	3500	B	5.9	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Boron	2.9		2.9	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Manganese	740	E	0.59	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1
Cobalt	15		0.29	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 16:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 14:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.021	0.0063	mg/Kg	☼	02/21/12 10:55	02/21/12 12:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.02		0.200	0.200	SU			02/23/12 12:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03 DUP**

**Lab Sample ID: 500-44345-12**

Date Collected: 02/16/12 14:15

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0024	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Bromodichloromethane	<0.0048		0.0048	0.00074	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Bromoform	<0.0048		0.0048	0.00078	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Carbon disulfide	<0.0048	*	0.0048	0.00069	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Carbon tetrachloride	<0.0048		0.0048	0.0011	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Chlorobenzene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Chloroethane	<0.0048	*	0.0048	0.0010	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Chloroform	<0.0048		0.0048	0.00089	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00071	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Dibromochloromethane	<0.0048		0.0048	0.00067	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Ethylbenzene	<0.0048		0.0048	0.00073	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
2-Hexanone	<0.0048		0.0048	0.00069	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Methylene Chloride	<0.0048		0.0048	0.0014	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00082	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00073	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Styrene	<0.0048		0.0048	0.00061	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Tetrachloroethene	<0.0048		0.0048	0.00092	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Toluene	<0.0048		0.0048	0.00094	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00069	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Vinyl chloride	<0.0048		0.0048	0.00068	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/16/12 14:15	02/21/12 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/16/12 14:15	02/21/12 15:15	1
Dibromofluoromethane	95		69 - 120	02/16/12 14:15	02/21/12 15:15	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 120	02/16/12 14:15	02/21/12 15:15	1
Toluene-d8 (Surr)	88		69 - 122	02/16/12 14:15	02/21/12 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03 DUP**

**Lab Sample ID: 500-44345-12**

**Date Collected: 02/16/12 14:15**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 78.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Benzo[k]fluoranthene	<0.040	*	0.040	0.0096	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.088</b>	<b>J</b>	0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03 DUP**

**Lab Sample ID: 500-44345-12**

Date Collected: 02/16/12 14:15

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		27 - 113	02/21/12 18:14	02/24/12 19:09	1
2-Fluorophenol	61		30 - 110	02/21/12 18:14	02/24/12 19:09	1
Nitrobenzene-d5	60		22 - 110	02/21/12 18:14	02/24/12 19:09	1
Phenol-d5	66		26 - 112	02/21/12 18:14	02/24/12 19:09	1
Terphenyl-d14	101		33 - 129	02/21/12 18:14	02/24/12 19:09	1
2,4,6-Tribromophenol	69		30 - 137	02/21/12 18:14	02/24/12 19:09	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 03:30	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.010	mg/L		02/23/12 16:00	02/25/12 03:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 03:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 03:30	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:30	1
Copper	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 03:30	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:30	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 20:12	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:30	1
Zinc	<0.10		0.10	0.020	mg/L		02/23/12 16:00	02/25/12 03:30	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 03:30	1
<b>Boron</b>	<b>0.80</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 03:30	1
<b>Manganese</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:30	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Arsenic</b>	<b>7.0</b>		0.63	0.088	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Barium</b>	<b>110</b>		0.63	0.035	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Beryllium</b>	<b>0.90</b>		0.25	0.013	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
Cadmium	<0.13		0.13	0.017	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Chromium</b>	<b>18</b>		0.63	0.053	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Copper</b>	<b>13</b>	<b>B</b>	0.63	0.088	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Lead</b>	<b>12</b>		0.31	0.15	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Nickel</b>	<b>17</b>	<b>B</b>	0.63	0.041	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Selenium</b>	<b>0.21</b>	<b>J</b>	0.63	0.18	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
Silver	<0.31		0.31	0.039	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.63	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Zinc</b>	<b>44</b>	<b>B</b>	1.3	0.10	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Sodium</b>	<b>980</b>	<b>B</b>	63	3.2	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Potassium</b>	<b>1000</b>		31	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
<b>Calcium</b>	<b>1700</b>	<b>B</b>	13	2.0	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B03 DUP**

**Lab Sample ID: 500-44345-12**

Date Collected: 02/16/12 14:15

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 78.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19000	B	13	1.6	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
Vanadium	35		0.31	0.030	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
Magnesium	2700	B	6.3	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
Boron	2.7	J	3.1	0.23	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
Manganese	640	E	0.63	0.026	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1
Cobalt	8.2		0.31	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 16:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 15:03	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0061	mg/Kg	☼	02/21/12 10:55	02/21/12 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.57		0.200	0.200	SU			02/23/12 12:18	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B05**

**Lab Sample ID: 500-44345-13**

**Date Collected: 02/16/12 14:40**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Bromodichloromethane	<0.0047		0.0047	0.00072	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Bromoform	<0.0047		0.0047	0.00077	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Carbon disulfide	<0.0047 *		0.0047	0.00067	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Chlorobenzene	<0.0047		0.0047	0.00075	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Chloroethane	<0.0047 *		0.0047	0.00099	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Chloroform	<0.0047		0.0047	0.00087	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Chloromethane	<0.0047		0.0047	0.00078	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Ethylbenzene	<0.0047		0.0047	0.00071	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00071	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Styrene	<0.0047		0.0047	0.00060	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Tetrachloroethene	<0.0047		0.0047	0.00090	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Toluene	<0.0047		0.0047	0.00092	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1
Xylenes, Total	<0.0095		0.0095	0.00066	mg/Kg	☼	02/16/12 14:40	02/21/12 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/16/12 14:40	02/21/12 15:41	1
Dibromofluoromethane	94		69 - 120	02/16/12 14:40	02/21/12 15:41	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 120	02/16/12 14:40	02/21/12 15:41	1
Toluene-d8 (Surr)	91		69 - 122	02/16/12 14:40	02/21/12 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B05**

**Lab Sample ID: 500-44345-13**

**Date Collected: 02/16/12 14:40**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0093	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.14</b>	<b>J</b>	0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B05**

**Lab Sample ID: 500-44345-13**

**Date Collected: 02/16/12 14:40**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		27 - 113	02/21/12 18:14	02/24/12 19:26	1
2-Fluorophenol	91		30 - 110	02/21/12 18:14	02/24/12 19:26	1
Nitrobenzene-d5	95		22 - 110	02/21/12 18:14	02/24/12 19:26	1
Phenol-d5	99		26 - 112	02/21/12 18:14	02/24/12 19:26	1
Terphenyl-d14	127		33 - 129	02/21/12 18:14	02/24/12 19:26	1
2,4,6-Tribromophenol	85		30 - 137	02/21/12 18:14	02/24/12 19:26	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 03:36	1
<b>Barium</b>	<b>0.85</b>		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 03:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 03:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 03:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:36	1
<b>Copper</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 03:36	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:36	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 20:18	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:36	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 03:36	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 03:36	1
<b>Boron</b>	<b>0.73</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 03:36	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:36	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:36	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.13	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Arsenic</b>	<b>4.1</b>		0.57	0.080	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Barium</b>	<b>33</b>		0.57	0.032	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Beryllium</b>	<b>0.40</b>		0.23	0.011	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.015	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Chromium</b>	<b>8.0</b>		0.57	0.049	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Copper</b>	<b>9.4</b>	<b>B</b>	0.57	0.080	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Lead</b>	<b>5.2</b>		0.29	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Nickel</b>	<b>7.4</b>	<b>B</b>	0.57	0.038	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Silver	<0.29		0.29	0.036	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Thallium	<0.57		0.57	0.19	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Zinc</b>	<b>21</b>	<b>B</b>	1.1	0.092	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Sodium</b>	<b>730</b>	<b>B</b>	57	2.9	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Potassium</b>	<b>720</b>		29	1.7	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
<b>Calcium</b>	<b>76000</b>	<b>B E</b>	11	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B05**

**Lab Sample ID: 500-44345-13**

Date Collected: 02/16/12 14:40

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 81.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8900	B	11	1.5	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Vanadium	16		0.29	0.027	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Magnesium	46000	B	5.7	1.0	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Boron	5.3		2.9	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Manganese	280		0.57	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1
Cobalt	3.0		0.29	0.023	mg/Kg	☼	02/22/12 09:00	02/23/12 02:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 16:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 15:06	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0054	mg/Kg	☼	02/21/12 10:55	02/21/12 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			02/23/12 12:22	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B06**

**Lab Sample ID: 500-44345-14**

Date Collected: 02/16/12 15:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0025	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Benzene	<0.0051		0.0051	0.00055	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Bromodichloromethane	<0.0051		0.0051	0.00077	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Bromoform	<0.0051		0.0051	0.00082	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Bromomethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
2-Butanone (MEK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Carbon disulfide	<0.0051	*	0.0051	0.00072	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Chlorobenzene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Chloroethane	<0.0051	*	0.0051	0.0011	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Chloroform	<0.0051		0.0051	0.00093	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Chloromethane	<0.0051		0.0051	0.00083	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00074	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00058	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Dibromochloromethane	<0.0051		0.0051	0.00070	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,2-Dichloroethane	<0.0051		0.0051	0.00052	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,1-Dichloroethene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,2-Dichloropropane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00058	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Ethylbenzene	<0.0051		0.0051	0.00076	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
2-Hexanone	<0.0051		0.0051	0.00072	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.00086	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00076	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Styrene	<0.0051		0.0051	0.00064	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Tetrachloroethene	<0.0051		0.0051	0.00096	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Toluene	<0.0051		0.0051	0.00098	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00097	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00068	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Trichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Vinyl chloride	<0.0051		0.0051	0.00071	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/16/12 15:00	02/21/12 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/16/12 15:00	02/21/12 16:05	1
Dibromofluoromethane	95		69 - 120	02/16/12 15:00	02/21/12 16:05	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 120	02/16/12 15:00	02/21/12 16:05	1
Toluene-d8 (Surr)	88		69 - 122	02/16/12 15:00	02/21/12 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B06**

**Lab Sample ID: 500-44345-14**

**Date Collected: 02/16/12 15:00**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 79.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Benzo[k]fluoranthene	<0.039	*	0.039	0.0095	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B06**

**Lab Sample ID: 500-44345-14**

Date Collected: 02/16/12 15:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/21/12 18:14	02/24/12 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		27 - 113	02/21/12 18:14	02/24/12 19:43	1
2-Fluorophenol	45		30 - 110	02/21/12 18:14	02/24/12 19:43	1
Nitrobenzene-d5	46		22 - 110	02/21/12 18:14	02/24/12 19:43	1
Phenol-d5	51		26 - 112	02/21/12 18:14	02/24/12 19:43	1
Terphenyl-d14	84		33 - 129	02/21/12 18:14	02/24/12 19:43	1
2,4,6-Tribromophenol	59		30 - 137	02/21/12 18:14	02/24/12 19:43	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 03:42	1
<b>Barium</b>	<b>0.65</b>		0.50	0.010	mg/L		02/23/12 16:00	02/25/12 03:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 03:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 03:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:42	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 03:42	1
Nickel	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:42	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 20:43	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:42	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 03:42	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 03:42	1
<b>Boron</b>	<b>0.93</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 03:42	1
<b>Manganese</b>	<b>0.040</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 03:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 03:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Arsenic</b>	<b>8.2</b>		0.61	0.085	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Barium</b>	<b>120</b>		0.61	0.034	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Beryllium</b>	<b>1.0</b>		0.24	0.012	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
Cadmium	<0.12		0.12	0.016	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Chromium</b>	<b>19</b>		0.61	0.052	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Copper</b>	<b>12</b>	<b>B</b>	0.61	0.085	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Lead</b>	<b>13</b>		0.30	0.15	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Nickel</b>	<b>15</b>	<b>B</b>	0.61	0.040	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Selenium</b>	<b>0.23</b>	<b>J</b>	0.61	0.17	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
Silver	<0.30		0.30	0.038	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.61	0.21	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Zinc</b>	<b>42</b>	<b>B</b>	1.2	0.097	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Sodium</b>	<b>520</b>	<b>B</b>	61	3.1	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Potassium</b>	<b>1600</b>		30	1.8	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
<b>Calcium</b>	<b>1800</b>	<b>B</b>	12	1.9	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
 SDG: 500-44345-1

**Client Sample ID: 915B-7-B06**

**Lab Sample ID: 500-44345-14**

Date Collected: 02/16/12 15:00

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 79.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000	B	12	1.6	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
Vanadium	37		0.30	0.029	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
Magnesium	3300	B	6.1	1.1	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
Boron	3.0		3.0	0.22	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
Manganese	660	E	0.61	0.026	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1
Cobalt	13		0.30	0.024	mg/Kg	☼	02/22/12 09:00	02/23/12 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 16:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 15:09	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.018	0.0056	mg/Kg	☼	02/21/12 10:55	02/21/12 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.43		0.200	0.200	SU			02/23/12 12:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B07**

**Lab Sample ID: 500-44345-15**

Date Collected: 02/16/12 15:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0021	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Benzene	<0.0043		0.0043	0.00046	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Bromodichloromethane	<0.0043		0.0043	0.00065	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Bromoform	<0.0043		0.0043	0.00069	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Bromomethane	<0.0043		0.0043	0.00091	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
2-Butanone (MEK)	<0.0043		0.0043	0.00092	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Carbon disulfide	<0.0043	*	0.0043	0.00061	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Chlorobenzene	<0.0043		0.0043	0.00067	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Chloroethane	<0.0043	*	0.0043	0.00090	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Chloroform	<0.0043		0.0043	0.00079	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Chloromethane	<0.0043		0.0043	0.00070	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00062	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00049	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Dibromochloromethane	<0.0043		0.0043	0.00059	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,2-Dichloroethane	<0.0043		0.0043	0.00044	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,1-Dichloroethene	<0.0043		0.0043	0.00067	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,2-Dichloropropane	<0.0043		0.0043	0.00097	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00049	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Ethylbenzene	<0.0043		0.0043	0.00064	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
2-Hexanone	<0.0043		0.0043	0.00061	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00073	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00064	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Styrene	<0.0043		0.0043	0.00054	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Tetrachloroethene	<0.0043		0.0043	0.00081	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Toluene	<0.0043		0.0043	0.00083	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00082	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00057	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Trichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Vinyl chloride	<0.0043		0.0043	0.00060	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1
Xylenes, Total	<0.0085		0.0085	0.00060	mg/Kg	☼	02/16/12 15:20	02/21/12 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		67 - 120	02/16/12 15:20	02/21/12 16:30	1
Dibromofluoromethane	96		69 - 120	02/16/12 15:20	02/21/12 16:30	1
1,2-Dichloroethane-d4 (Surr)	113		69 - 120	02/16/12 15:20	02/21/12 16:30	1
Toluene-d8 (Surr)	94		69 - 122	02/16/12 15:20	02/21/12 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Acenaphthylene	<0.031		0.031	0.0079	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.010</b>	<b>J</b>	0.034	0.0067	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B07**

**Lab Sample ID: 500-44345-15**

**Date Collected: 02/16/12 15:20**

**Matrix: Solid**

**Date Received: 02/17/12 10:00**

**Percent Solids: 93.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.017</b>	<b>J</b>	0.034	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Benzo[k]fluoranthene	<0.034	*	0.034	0.0082	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.073</b>	<b>J</b>	0.17	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
4-Chloroaniline	<0.70		0.70	0.10	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B07**

**Lab Sample ID: 500-44345-15**

Date Collected: 02/16/12 15:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Phenol	<0.17		0.17	0.055	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/21/12 18:14	02/24/12 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		27 - 113	02/21/12 18:14	02/24/12 20:00	1
2-Fluorophenol	82		30 - 110	02/21/12 18:14	02/24/12 20:00	1
Nitrobenzene-d5	85		22 - 110	02/21/12 18:14	02/24/12 20:00	1
Phenol-d5	87		26 - 112	02/21/12 18:14	02/24/12 20:00	1
Terphenyl-d14	99		33 - 129	02/21/12 18:14	02/24/12 20:00	1
2,4,6-Tribromophenol	80		30 - 137	02/21/12 18:14	02/24/12 20:00	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/23/12 16:00	02/25/12 04:03	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.010	mg/L		02/23/12 16:00	02/25/12 04:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/23/12 16:00	02/25/12 04:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/23/12 16:00	02/25/12 04:03	1
Chromium	<0.025		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 04:03	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 04:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/23/12 16:00	02/25/12 04:03	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		02/23/12 16:00	02/25/12 04:03	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 08:30	02/27/12 21:04	1
Silver	<0.025		0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 04:03	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		02/23/12 16:00	02/25/12 04:03	1
Iron	<0.20		0.20	0.20	mg/L		02/23/12 16:00	02/25/12 04:03	1
<b>Boron</b>	<b>0.87</b>		0.10	0.050	mg/L		02/23/12 16:00	02/25/12 04:03	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		02/23/12 16:00	02/25/12 04:03	1
<b>Cobalt</b>	<b>0.0050</b>	<b>J</b>	0.025	0.0050	mg/L		02/23/12 16:00	02/25/12 04:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.12	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Arsenic</b>	<b>2.4</b>		0.53	0.074	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Barium</b>	<b>10</b>		0.53	0.030	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Beryllium</b>	<b>0.23</b>		0.21	0.011	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.014	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Chromium</b>	<b>4.1</b>		0.53	0.045	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Copper</b>	<b>8.4</b>	<b>B</b>	0.53	0.074	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Lead</b>	<b>4.1</b>		0.27	0.13	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Nickel</b>	<b>4.4</b>	<b>B</b>	0.53	0.035	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Thallium	<0.53		0.53	0.18	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Zinc</b>	<b>14</b>	<b>B</b>	1.1	0.085	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Sodium</b>	<b>650</b>	<b>B</b>	53	2.7	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Potassium</b>	<b>580</b>		27	1.6	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
<b>Calcium</b>	<b>110000</b>	<b>B E</b>	11	1.7	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

**Client Sample ID: 915B-7-B07**

**Lab Sample ID: 500-44345-15**

Date Collected: 02/16/12 15:20

Matrix: Solid

Date Received: 02/17/12 10:00

Percent Solids: 93.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5200	B	11	1.4	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Vanadium	8.0		0.27	0.025	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Magnesium	50000	B	5.3	0.96	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Boron	5.7		2.7	0.19	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Manganese	230		0.53	0.022	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1
Cobalt	1.9		0.27	0.021	mg/Kg	☼	02/22/12 09:00	02/23/12 02:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/23/12 16:00	02/24/12 16:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/23/12 16:00	02/24/12 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/23/12 11:25	02/23/12 15:11	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0049	mg/Kg	☼	02/21/12 10:55	02/21/12 13:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.200	0.200	SU			02/23/12 12:30	1

## Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44345-1  
SDG: 500-44345-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

#### GC/MS Semi VOA

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

#### GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the 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.
E	Result exceeded calibration range.
L	A negative instrument reading had an absolute value greater than the reporting limit
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than 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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> RTE 14	<b>COC No.:</b> 1 of 2
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>Lab Job No.:</b> 506-44345 <b>Sample Temp:</b> (26) (23)

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-1-B06	2/16/12	8:30	S	✓						✓	✓	✓	✓		0-3.5'
2	915B-1-B02	2/16	9:00	S	✓						✓	✓	✓	✓		0-3.5'
3	915B-1-B04	2/16	8:45	S	✓						✓	✓	✓	✓		0-3.5'
4	915B-3-B01	2/16	9:20	S	✓						✓	✓	✓	✓		0-9.5'
5	915B-3-B02	2/16	9:40	S	✓						✓	✓	✓	✓		0-9.5'
6	915B-6-B01-1	2/16	10:45	S	✓						✓	✓	✓	✓		0-5'
7	915B-6-B01-2	2/16	11:00	S	✓						✓	✓	✓	✓		5-9.5'
8	915B-6-B02-1	2/16	12:30	S	✓						✓	✓	✓	✓		0-5'
9	915B-6-B02-2	2/16	1:00	S	✓						✓	✓	✓	✓		5-9.5'
10	915B-7-B01	2/16/12	1:20	S	✓						✓	✓	✓	✓		0-3.5'
11	915B-7-B03	2/16	1:45	S	✓						✓	✓	✓	✓		0-6.5'
12	915B-7-B03N/A	2/16	2:15	S	✓						✓	✓	✓	✓		0-6.5'
Relinquished by: <i>Chad</i>					Received by: <i>Chad</i>										Date/Time: 2/16/12 16:15	
Relinquished by: <i>Colleen</i>					Received by: <i>Colleen</i>										Date/Time: 2/16/12 17:30	
Relinquished by:					Received by:										Date/Time:	



# CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

**Project Name:** RTE 14  
**Project No.:** IDOT2011-032  
 TAT:  5 BD  10 BD  5 BD  2 BD  Other

**COC No.:** 2 of 2  
**Lab Job No.:** 500-44345  
**Sample Temp.:**

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments	Date/Time
13	915B-7-B05	2/16/12	2:40	S	✓						✓	✓	✓	✓		0-9.5'	2/17/12 1000
14	915B-7-B06	2/16	3:00	S	✓						✓	✓	✓	✓		0-9.5'	2/17/12 1000
15	915B-7-B07	2/16	3:20	S	✓						✓	✓	✓	✓		0-9.5'	2/17/12 1000
16	915B-11-B03-1	2/16	3:45	S	✓						✓	✓	✓	✓		0-4'	2/17/12 1000
17	915B-11-B03-2	2/16	4:00	S	✓						✓	✓	✓	✓		4-6.5'	2/17/12 1000

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**ANALYSES**  
 VOCs, SVOCs, BTEX & MTBE, PNAs, Pesticides, PCBs, Total Metals, TCLP/SPLP Metals, pH, % Solids, Waste Characterization

**Relinquished by:** *Colleen Grey* Date/Time: 2/16/12 16:15  
**Relinquished by:** *J.A.* Date/Time: 2/16/12 17:30  
**Relinquished by:** *J.A.* Date/Time: 2/16/12 17:30

September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091081

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)



**Client:** Andrews Engineering, Inc.

**Work Order:** 13091081

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091081

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091081-001

Client Sample ID: 915B-7-B06

Matrix: SOLID

Collection Date: 09/20/2013 13:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0454</b>	mg/L	1	09/30/2013 10:00	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.234</b>	mg/L	1	09/25/2013 12:32	92207



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Rt 14 McHenry Co</u> Project No.: <u>IDOT 2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other <b>AEI</b> Sampler:	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13091081</u> Sample Temp.: <u>23.0 No. Ice</u> <b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
<b>Special Instructions:</b> See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		<b>ANALYSES</b>														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
13091081-201	915-B-7-B06	9/20/13	1:35	S											X SPLP M/AX TLP m <sup>3</sup>	0-9.5'
					Relinquished by: <u>Shelly Hennessy (AEI)</u> Date/Time: <u>9/20/13 3:40</u> Relinquished by: <u>Stephanie Hayes Red-ex</u> Date/Time: <u>9/23/13 11:28</u> Relinquished by: _____ Date/Time: _____											



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9414 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27174 Longitude: -88.38207

(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: 1110955200 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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.27174 Longitude: -88.38207Uncontaminated 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):

LOCATIONS 915B-8-B01, -B02 AND -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-8. SEE FIGURE 12 AND TABLE 5h OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44416-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date: 7/8/14

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-8**

**Cal and Shanes Tree Farm**

Sample ID	915B-8-B01	915B-8-B02	915B-8-B04						
Sample Depth (ft)	0-3.5	0-3.5	0-3.5						
Sample Date	2/22/2012	2/22/2012	2/22/2012						
PID	0	0	0						
Sample pH	6.75	7.17	6.99						
Matrix	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>									
				<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44416-1

TestAmerica Sample Delivery Group: 500-44416-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:20:03 PM

Jodie Bracken

Data Delivery Analyst

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Richard Wright

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### LINKS

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

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B01**

**Lab Sample ID: 500-44416-3**

Date Collected: 02/22/12 09:20

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Carbon disulfide	<0.0049		0.0049	0.00069	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
2-Hexanone	<0.0049	*	0.0049	0.00069	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
4-Methyl-2-pentanone (MIBK)	<0.0049	*	0.0049	0.00083	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/22/12 09:20	02/27/12 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/22/12 09:20	02/27/12 19:14	1
Dibromofluoromethane	98		69 - 120	02/22/12 09:20	02/27/12 19:14	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 120	02/22/12 09:20	02/27/12 19:14	1
Toluene-d8 (Surr)	112		69 - 122	02/22/12 09:20	02/27/12 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Acenaphthylene	<0.037		0.037	0.0093	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Benzo[a]pyrene	<0.040	*	0.040	0.0074	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Benzo[b]fluoranthene	<0.040	*	0.040	0.0079	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B01**

**Lab Sample ID: 500-44416-3**

**Date Collected: 02/22/12 09:20**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Fluorene	<0.040	*	0.040	0.0092	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Hexachlorocyclopentadiene	<0.82	*	0.82	0.19	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2-Nitrophenol	<0.40	*	0.40	0.063	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B01**

**Lab Sample ID: 500-44416-3**

Date Collected: 02/22/12 09:20

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,4,5-Trichlorophenol	<0.40	*	0.40	0.12	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	03/06/12 07:32	03/06/12 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		27 - 113	03/06/12 07:32	03/06/12 17:39	1
2-Fluorophenol	79		30 - 110	03/06/12 07:32	03/06/12 17:39	1
Nitrobenzene-d5	92		22 - 110	03/06/12 07:32	03/06/12 17:39	1
Phenol-d5	86		26 - 112	03/06/12 07:32	03/06/12 17:39	1
Terphenyl-d14	80		33 - 129	03/06/12 07:32	03/06/12 17:39	1
2,4,6-Tribromophenol	135		30 - 137	03/06/12 07:32	03/06/12 17:39	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00083	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
alpha-BHC	<0.0020		0.0020	0.00051	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
4,4'-DDT	<0.0020		0.0020	0.0011	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
delta-BHC	<0.0020		0.0020	0.00063	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Endosulfan I	<0.0020		0.0020	0.00088	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Endosulfan sulfate	<0.0020		0.0020	0.00037	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Endrin	<0.0020		0.0020	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Endrin aldehyde	<0.0020		0.0020	0.00034	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Heptachlor	<0.0020		0.0020	0.00084	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Methoxychlor	<0.0099		0.0099	0.00039	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	02/29/12 20:41	03/01/12 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		43 - 126	02/29/12 20:41	03/01/12 12:44	1
Tetrachloro-m-xylene	61		32 - 111	02/29/12 20:41	03/01/12 12:44	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:40	1
Barium	0.16	J	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 20:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 20:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 20:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:40	1
Copper	0.010	J	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:40	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B01**

**Lab Sample ID: 500-44416-3**

Date Collected: 02/22/12 09:20

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 20:40	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:40	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:40	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:40	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 20:40	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 20:40	1
<b>Boron</b>	<b>2.0</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 20:40	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:40	1
<b>Cobalt</b>	<b>0.0060</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:40	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Arsenic</b>	<b>4.1</b>		0.57	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Barium</b>	<b>29</b>		0.57	0.068	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Beryllium</b>	<b>0.30</b>		0.23	0.017	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.028	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Chromium</b>	<b>6.6</b>		0.57	0.096	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Copper</b>	<b>9.2</b>		0.57	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Lead</b>	<b>6.5</b>		0.29	0.099	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Nickel</b>	<b>7.4</b>		0.57	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Zinc</b>	<b>21</b>		1.1	0.39	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Sodium</b>	<b>130</b>		57	11	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Potassium</b>	<b>550</b>	<b>B</b>	29	3.2	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Calcium</b>	<b>48000</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Iron</b>	<b>8500</b>		11	5.0	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Vanadium</b>	<b>13</b>		0.29	0.044	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Magnesium</b>	<b>31000</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Boron</b>	<b>3.9</b>		2.9	0.54	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Manganese</b>	<b>270</b>		0.57	0.081	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1
<b>Cobalt</b>	<b>3.5</b>		0.29	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 01:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 11:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:32	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.032</b>		0.019	0.0057	mg/Kg	☼	02/24/12 08:35	02/24/12 12:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.75</b>		0.200	0.200	SU			02/29/12 11:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B02**

**Lab Sample ID: 500-44416-4**

Date Collected: 02/22/12 10:20

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Carbon disulfide	<0.0047		0.0047	0.00066	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
2-Hexanone	<0.0047	*	0.0047	0.00066	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
4-Methyl-2-pentanone (MIBK)	<0.0047	*	0.0047	0.00080	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Vinyl chloride	<0.0047		0.0047	0.00065	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1
Xylenes, Total	<0.0094		0.0094	0.00065	mg/Kg	☼	02/22/12 10:20	02/27/12 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		67 - 120	02/22/12 10:20	02/27/12 19:40	1
Dibromofluoromethane	101		69 - 120	02/22/12 10:20	02/27/12 19:40	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 120	02/22/12 10:20	02/27/12 19:40	1
Toluene-d8 (Surr)	110		69 - 122	02/22/12 10:20	02/27/12 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B02**

**Lab Sample ID: 500-44416-4**

**Date Collected: 02/22/12 10:20**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B02**

**Lab Sample ID: 500-44416-4**

Date Collected: 02/22/12 10:20

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		27 - 113	02/24/12 07:23	03/02/12 16:48	1
2-Fluorophenol	80		30 - 110	02/24/12 07:23	03/02/12 16:48	1
Nitrobenzene-d5	75		22 - 110	02/24/12 07:23	03/02/12 16:48	1
Phenol-d5	78		26 - 112	02/24/12 07:23	03/02/12 16:48	1
Terphenyl-d14	95		33 - 129	02/24/12 07:23	03/02/12 16:48	1
2,4,6-Tribromophenol	84		30 - 137	02/24/12 07:23	03/02/12 16:48	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00083	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
alpha-BHC	<0.0020		0.0020	0.00051	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
delta-BHC	<0.0020		0.0020	0.00063	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Endosulfan I	<0.0020		0.0020	0.00087	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Endrin	<0.0020		0.0020	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Heptachlor	<0.0020		0.0020	0.00084	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Methoxychlor	<0.0099		0.0099	0.00039	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	02/29/12 20:41	03/01/12 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		43 - 126	02/29/12 20:41	03/01/12 13:04	1
Tetrachloro-m-xylene	72		32 - 111	02/29/12 20:41	03/01/12 13:04	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:47	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 20:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 20:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 20:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:47	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:47	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B02**

**Lab Sample ID: 500-44416-4**

Date Collected: 02/22/12 10:20

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 20:47	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:47	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:47	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:47	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 20:47	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 20:47	1
<b>Boron</b>	<b>2.6</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 20:47	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:47	1
<b>Cobalt</b>	<b>0.0090</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:47	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Arsenic</b>	<b>7.3</b>		0.57	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Barium</b>	<b>100</b>		0.57	0.068	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Beryllium</b>	<b>0.79</b>		0.23	0.017	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Chromium</b>	<b>17</b>		0.57	0.095	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Copper</b>	<b>16</b>		0.57	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Lead</b>	<b>11</b>		0.28	0.098	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Nickel</b>	<b>16</b>		0.57	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Selenium</b>	<b>0.22</b>	<b>J</b>	0.57	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Thallium</b>	<b>0.37</b>	<b>J</b>	0.57	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Zinc</b>	<b>42</b>		1.1	0.39	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Sodium</b>	<b>87</b>		57	10	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Potassium</b>	<b>760</b>	<b>B</b>	28	3.2	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Calcium</b>	<b>2400</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Iron</b>	<b>20000</b>		11	4.9	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Vanadium</b>	<b>27</b>		0.28	0.043	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Magnesium</b>	<b>3200</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Boron</b>	<b>1.4</b>	<b>J</b>	2.8	0.53	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Manganese</b>	<b>450</b>		0.57	0.080	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1
<b>Cobalt</b>	<b>7.6</b>		0.28	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:34	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.023</b>		0.019	0.0059	mg/Kg	☼	02/24/12 08:35	02/24/12 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.17</b>		0.200	0.200	SU			02/29/12 11:23	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B04**

**Lab Sample ID: 500-44416-6**

Date Collected: 02/22/12 10:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Bromoform	<0.0049	*	0.0049	0.00080	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Chloroform	<0.0049		0.0049	0.00091	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
2-Hexanone	<0.0049	*	0.0049	0.00070	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
4-Methyl-2-pentanone (MIBK)	<0.0049	*	0.0049	0.00084	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Tetrachloroethene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1
Xylenes, Total	<0.0098		0.0098	0.00069	mg/Kg	☼	02/22/12 10:45	02/27/12 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		67 - 120	02/22/12 10:45	02/27/12 20:27	1
Dibromofluoromethane	99		69 - 120	02/22/12 10:45	02/27/12 20:27	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 120	02/22/12 10:45	02/27/12 20:27	1
Toluene-d8 (Surr)	112		69 - 122	02/22/12 10:45	02/27/12 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Acenaphthylene	<0.037		0.037	0.0094	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B04**

**Lab Sample ID: 500-44416-6**

**Date Collected: 02/22/12 10:45**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 80.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B04**

**Lab Sample ID: 500-44416-6**

Date Collected: 02/22/12 10:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		27 - 113	02/24/12 07:23	03/02/12 17:35	1
2-Fluorophenol	94		30 - 110	02/24/12 07:23	03/02/12 17:35	1
Nitrobenzene-d5	89		22 - 110	02/24/12 07:23	03/02/12 17:35	1
Phenol-d5	88		26 - 112	02/24/12 07:23	03/02/12 17:35	1
Terphenyl-d14	108		33 - 129	02/24/12 07:23	03/02/12 17:35	1
2,4,6-Tribromophenol	103		30 - 137	02/24/12 07:23	03/02/12 17:35	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00082	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
alpha-Chlordane	<0.0020		0.0020	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
beta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
4,4'-DDD	<0.0020		0.0020	0.00040	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
4,4'-DDE	<0.0020		0.0020	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
delta-BHC	<0.0020		0.0020	0.00062	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Endosulfan I	<0.0020		0.0020	0.00087	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Endrin ketone	<0.0020		0.0020	0.00045	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00043	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
gamma-Chlordane	<0.0020		0.0020	0.00052	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Heptachlor	<0.0020		0.0020	0.00083	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Heptachlor epoxide	<0.0020		0.0020	0.00071	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Methoxychlor	<0.0099		0.0099	0.00038	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1
Toxaphene	<0.020		0.020	0.0084	mg/Kg	☼	02/29/12 20:41	03/01/12 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		43 - 126	02/29/12 20:41	03/01/12 13:45	1
Tetrachloro-m-xylene	78		32 - 111	02/29/12 20:41	03/01/12 13:45	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:59	1
Barium	0.15	J	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 20:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 20:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 20:59	1
Chromium	0.013	J	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:59	1
Copper	0.014	J	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-8-B04**

**Lab Sample ID: 500-44416-6**

Date Collected: 02/22/12 10:45

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 20:59	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:59	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 20:59	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:59	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 20:59	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 20:59	1
<b>Boron</b>	<b>3.8</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 20:59	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 20:59	1
<b>Cobalt</b>	<b>0.0056</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 20:59	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Arsenic</b>	<b>9.1</b>		0.59	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Barium</b>	<b>93</b>		0.59	0.071	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Beryllium</b>	<b>0.89</b>		0.24	0.017	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Chromium</b>	<b>21</b>		0.59	0.099	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Copper</b>	<b>19</b>		0.59	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Lead</b>	<b>12</b>		0.30	0.10	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Nickel</b>	<b>19</b>		0.59	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Selenium</b>	<b>0.23</b>	<b>J</b>	0.59	0.17	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Zinc</b>	<b>44</b>		1.2	0.41	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Sodium</b>	<b>77</b>		59	11	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Potassium</b>	<b>1800</b>	<b>B</b>	30	3.4	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Calcium</b>	<b>1900</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Iron</b>	<b>24000</b>		12	5.1	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Vanadium</b>	<b>42</b>		0.30	0.045	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Magnesium</b>	<b>3300</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Boron</b>	<b>2.4</b>	<b>J</b>	3.0	0.55	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Manganese</b>	<b>510</b>		0.59	0.084	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1
<b>Cobalt</b>	<b>8.2</b>		0.30	0.031	mg/Kg	☼	02/28/12 09:30	03/02/12 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00059</b>	<b>J</b>	0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:37	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.061</b>		0.021	0.0063	mg/Kg	☼	02/24/12 08:35	02/24/12 12:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.99</b>		0.200	0.200	SU			02/29/12 11:31	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
X	Surrogate is outside control limits
*	LCS or 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-44416</u> Sample Temp: <u>(3.1) (3.6)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-7-B02	2/22	8:30	S	✓	✓					✓	✓	✓	✓		0-3.5'	
2	915B-7-B04	2/22	8:50	S	✓	✓					✓	✓	✓	✓		0-6.5'	
3	915B-8-B01	2/22	9:20	S	✓	✓					✓	✓	✓	✓		0-3.5'	
4	915B-8-B02	2/22	10:20	S	✓	✓					✓	✓	✓	✓		0-3.5'	
5	915B-8-B03	2/22	10:30	S	✓	✓					✓	✓	✓	✓		0-3.5'	
6	915B-8-B04	2/22	10:45	S	✓	✓					✓	✓	✓	✓		0-3.5'	
7	915B-9-B01	2/22	11:00	S	✓	✓					✓	✓	✓	✓		0-3.5'	
8	915B-10-B01	2/22	11:30	S	✓	✓		✓	✓	✓	✓	✓	✓	✓		0-3.5'	
9	915B-10-B01-DUP	2/22	11:45	S	✓	✓		✓	✓	✓	✓	✓	✓	✓		0-3.5'	
10	915B-10-B02	2/22	1:15	S	✓	✓		✓	✓	✓	✓	✓	✓	✓		0-3.5'	
11	915B-10-B03	2/22	1:30	S	✓	✓		✓	✓	✓	✓	✓	✓	✓		0-3.5'	
12	915B-10-B04	2/22	1:45	S	✓	✓		✓	✓	✓	✓	✓	✓	✓		0-3.5'	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 07:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Blank]</u>	Received by: <u>[Blank]</u>	Date/Time: <u>[Blank]</u>





# CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamerica.com

Project Name: PTE 14  
 Project No.: IDOT2011-032  
 TAT:  5 BD  10 BD  5 BD  2 BD  Other

COC No.: 2 of 2  
 Lab Job No.: 500-49916  
 Sample Temp: \_\_\_\_\_

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-10-B05	2/22	2:00	S			✓	✓			✓	✓	✓	✓		0-3.5'
14	915B-12-B01-1	2/22	2:45	S	✓						✓	✓	✓	✓		0-4'
15	915B-12-B01-2	2/22	3:00	S	✓						✓	✓	✓	✓		4-6.5'
16	915B-12-B02-1	2/22	3:15	S	✓						✓	✓	✓	✓		0-4'
17	915B-12-B02-2	2/22	3:30	S	✓						✓	✓	✓	✓		4-6.5'
18	915B-16-B02	2/22	3:45	S	✓						✓	✓	✓	✓		0-6.5'
19	915B-12-B03-1	2/22	3:55	S	✓						✓	✓	✓	✓		0-4'
20	915B-12-B03-2	2/22	4:00	S	✓						✓	✓	✓	✓		4-6.5'

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**ANALYSES**

Received by: [Signature] Date/Time: 2/22/12 16:00  
 Received by: [Signature] Date/Time: 2-22-12 17:55  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9400 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27293 Longitude: -88.38326

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27293 Longitude: -88.38326

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):

LOCATION 915B-9-B01 WAS SAMPLED ADJACENT TO ISGS SITE 915B-9. SEE FIGURES 11 AND 12 AND TABLE 5i OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44416-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISGS Site 915B-9  
Agricultural Fields**

<b>Sample ID</b>	915B-9-B01								
<b>Sample Depth (ft)</b>	0-3.5								
<b>Sample Date</b>	2/22/2012								
<b>PID</b>	0								
<b>Sample pH</b>	6.41								
<b>Matrix</b>	Soil								
<b>1 Most Stringent MAC</b>									
		<b>2 Outside a Populated Area MAC</b>		<b>3 Populated non-Metropolitan Statistical Area MAC</b>		<b>4 Within Chicago Corporate Limits MAC</b>		<b>5 Metropolitan Statistical Area MAC</b>	
<b>6 Class I Soil TCLP/SPLP Comparisons Only</b>									
<b>No Contaminants of Concern Noted.</b>									

# 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: 500-44416-1

TestAmerica Sample Delivery Group: 500-44416-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:20:03 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-9-B01**

**Lab Sample ID: 500-44416-7**

Date Collected: 02/22/12 11:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
2-Hexanone	<0.0047	*	0.0047	0.00067	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
4-Methyl-2-pentanone (MIBK)	<0.0047	*	0.0047	0.00080	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/22/12 11:00	02/27/12 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/22/12 11:00	02/27/12 20:53	1
Dibromofluoromethane	100		69 - 120	02/22/12 11:00	02/27/12 20:53	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 120	02/22/12 11:00	02/27/12 20:53	1
Toluene-d8 (Surr)	113		69 - 122	02/22/12 11:00	02/27/12 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Acenaphthylene	<0.035		0.035	0.0088	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-9-B01**

**Lab Sample ID: 500-44416-7**

**Date Collected: 02/22/12 11:00**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-9-B01**

**Lab Sample ID: 500-44416-7**

Date Collected: 02/22/12 11:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/24/12 07:23	03/02/12 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		27 - 113	02/24/12 07:23	03/02/12 17:59	1
2-Fluorophenol	80		30 - 110	02/24/12 07:23	03/02/12 17:59	1
Nitrobenzene-d5	71		22 - 110	02/24/12 07:23	03/02/12 17:59	1
Phenol-d5	77		26 - 112	02/24/12 07:23	03/02/12 17:59	1
Terphenyl-d14	103		33 - 129	02/24/12 07:23	03/02/12 17:59	1
2,4,6-Tribromophenol	86		30 - 137	02/24/12 07:23	03/02/12 17:59	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:05	1
<b>Barium</b>	<b>0.71</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 21:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 21:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 21:05	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:05	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:05	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 21:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:05	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:05	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:05	1
<b>Zinc</b>	<b>0.035</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 21:05	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 21:05	1
<b>Boron</b>	<b>3.0</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 21:05	1
<b>Manganese</b>	<b>0.80</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:05	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Arsenic</b>	<b>8.0</b>		0.60	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Barium</b>	<b>120</b>		0.60	0.071	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Beryllium</b>	<b>0.91</b>		0.24	0.017	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Chromium</b>	<b>19</b>		0.60	0.10	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Copper</b>	<b>13</b>		0.60	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Lead</b>	<b>12</b>		0.30	0.10	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Nickel</b>	<b>14</b>		0.60	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Selenium</b>	<b>0.35</b>	<b>J</b>	0.60	0.17	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Thallium</b>	<b>0.29</b>	<b>J</b>	0.60	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Zinc</b>	<b>43</b>		1.2	0.41	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Sodium</b>	<b>92</b>		60	11	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Potassium</b>	<b>900</b>	<b>B</b>	30	3.4	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
<b>Calcium</b>	<b>2100</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-9-B01**

**Lab Sample ID: 500-44416-7**

Date Collected: 02/22/12 11:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21000		12	5.2	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
Vanadium	36		0.30	0.045	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
Magnesium	3300	B	6.0	1.2	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
Boron	2.0	J	3.0	0.56	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
Manganese	460		0.60	0.084	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1
Cobalt	8.8		0.30	0.031	mg/Kg	☼	02/28/12 09:30	03/02/12 01:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:39	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0055	mg/Kg	☼	02/24/12 08:35	02/24/12 12:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.41		0.200	0.200	SU			02/29/12 11:35	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
X	Surrogate is outside control limits
*	LCS or 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project No.: <u>500-44416</u> Sample Temp: <u>(3.1) (3.6)</u>	
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Analyses</b> VOCs <input checked="" type="checkbox"/> SVOCs <input checked="" type="checkbox"/> BETX & MTBE <input checked="" type="checkbox"/> PNAS <input type="checkbox"/> Pesticides <input type="checkbox"/> PCBS <input type="checkbox"/> Total Metals <input checked="" type="checkbox"/> TCLP/SPLP Metals <input checked="" type="checkbox"/> PH <input checked="" type="checkbox"/> % Solids <input checked="" type="checkbox"/> Waste Characterization <input type="checkbox"/>	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments
1	915B-7-B02	2/22	8:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
2	915B-7-B04	2/22	8:50	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-6.5'
3	915B-8-B01	2/22	9:20	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
4	915B-8-B02	2/22	10:20	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
5	915B-8-B03	2/22	10:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
6	915B-8-B04	2/22	10:45	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
7	915B-9-B01	2/22	11:00	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
8	915B-10-B01	2/22	11:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
9	915B-10-B01-DUP	2/22	11:45	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
10	915B-10-B02	2/22	1:15	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
11	915B-10-B03	2/22	1:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'
12	915B-10-B04	2/22	1:45	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0-3.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 07:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Blank]</u>	Received by: <u>[Blank]</u>	Date/Time: <u>[Blank]</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com		Project Name: <u>PRE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-49916</u> Sample Temp: _____										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-10-B05	2/22	2:00	S	✓		✓	✓			✓	✓	✓	✓		0-3.5'
14	915B-12-B01-1	2/22	2:45	S	✓						✓	✓	✓	✓		0-4'
15	915B-12-B02-2	2/22	3:00	S	✓						✓	✓	✓	✓		4-6.5'
16	915B-12-B02-1	2/22	3:15	S	✓						✓	✓	✓	✓		0-4'
17	915B-12-B02-2	2/22	3:30	S	✓						✓	✓	✓	✓		4-6.5'
18	915B-16-B02	2/22	3:45	S	✓						✓	✓	✓	✓		0-6.5'
19	915B-12-B03-1	2/22	3:55	S	✓						✓	✓	✓	✓		0-4'
20	915B-12-B03-2	2/22	4:00	S	✓						✓	✓	✓	✓		4-6.5'
Relinquished by: <i>[Signature]</i>					Date/Time	2/22/12 16:00										
Relinquished by: <i>[Signature]</i>					Date/Time	2-22-12 17:55										
Relinquished by: <i>[Signature]</i>					Date/Time	2/22/12 16:00										



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9500 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27435 Longitude: -88.38483

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27435 Longitude: -88.38483

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):

LOCATIONS 915B-10-B01, -B02, -B03 AND -B05 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B. SEE FIGURE 11 AND TABLE 5j OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44416-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NO. 13091082

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

I, Steven Gobelman, P.E., L.P.G. (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))*

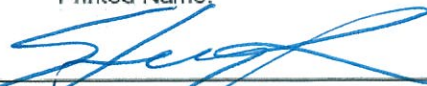
Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 \_\_\_\_\_  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/8/14  
 \_\_\_\_\_  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



# 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: 500-44416-1

TestAmerica Sample Delivery Group: 500-44416-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:20:03 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B01**

**Lab Sample ID: 500-44416-8**

Date Collected: 02/22/12 11:30

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/22/12 11:30	02/27/12 21:13	1
Ethylbenzene	<0.0044		0.0044	0.00067	mg/Kg	☼	02/22/12 11:30	02/27/12 21:13	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00067	mg/Kg	☼	02/22/12 11:30	02/27/12 21:13	1
Toluene	<0.0044		0.0044	0.00086	mg/Kg	☼	02/22/12 11:30	02/27/12 21:13	1
Xylenes, Total	<0.0089		0.0089	0.00062	mg/Kg	☼	02/22/12 11:30	02/27/12 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		67 - 120	02/22/12 11:30	02/27/12 21:13	1
Dibromofluoromethane	98		69 - 120	02/22/12 11:30	02/27/12 21:13	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 120	02/22/12 11:30	02/27/12 21:13	1
Toluene-d8 (Surr)	110		69 - 122	02/22/12 11:30	02/27/12 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Acenaphthylene	<0.036		0.036	0.0090	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/24/12 07:23	03/02/12 18:23	1
Nitrobenzene-d5	90		22 - 110	02/24/12 07:23	03/02/12 18:23	1
Terphenyl-d14	96		33 - 129	02/24/12 07:23	03/02/12 18:23	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:11	1
<b>Barium</b>	<b>0.93</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 21:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 21:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 21:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:11	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 21:11	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:11	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:11	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:11	1
<b>Zinc</b>	<b>0.030</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 21:11	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 21:11	1
<b>Boron</b>	<b>2.5</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 21:11	1
<b>Manganese</b>	<b>0.60</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B01**

**Lab Sample ID: 500-44416-8**

Date Collected: 02/22/12 11:30

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:11	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Arsenic	5.1		0.60	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Barium	79		0.60	0.071	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Beryllium	0.63		0.24	0.018	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Cadmium	0.15		0.12	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Chromium	11		0.60	0.10	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Copper	24		0.60	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Lead	7.4		0.30	0.10	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Nickel	13		0.60	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Thallium	<0.60		0.60	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Zinc	32		1.2	0.41	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Sodium	400		60	11	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Potassium	870	B	30	3.4	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Calcium	31000	B	12	2.1	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Iron	15000		12	5.2	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Vanadium	32		0.30	0.046	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Magnesium	20000	B	6.0	1.2	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Boron	2.6	J	3.0	0.56	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Manganese	430		0.60	0.085	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1
Cobalt	6.9		0.30	0.032	mg/Kg	☼	02/28/12 09:30	03/02/12 01:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:41	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0059	mg/Kg	☼	02/24/12 08:35	02/24/12 12:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.09		0.200	0.200	SU			02/29/12 11:38	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B01-DUP**

**Lab Sample ID: 500-44416-9**

Date Collected: 02/22/12 11:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/22/12 11:45	02/27/12 21:34	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/22/12 11:45	02/27/12 21:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/22/12 11:45	02/27/12 21:34	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/22/12 11:45	02/27/12 21:34	1
Xylenes, Total	<0.0091		0.0091	0.00064	mg/Kg	☼	02/22/12 11:45	02/27/12 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		67 - 120				02/22/12 11:45	02/27/12 21:34	1
Dibromofluoromethane	101		69 - 120				02/22/12 11:45	02/27/12 21:34	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 120				02/22/12 11:45	02/27/12 21:34	1
Toluene-d8 (Surr)	111		69 - 122				02/22/12 11:45	02/27/12 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		27 - 113				02/24/12 07:23	03/02/12 18:46	1
Nitrobenzene-d5	94		22 - 110				02/24/12 07:23	03/02/12 18:46	1
Terphenyl-d14	108		33 - 129				02/24/12 07:23	03/02/12 18:46	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:51	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 21:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 21:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 21:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:51	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 21:51	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:51	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:51	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:51	1
<b>Zinc</b>	<b>0.037</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 21:51	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 21:51	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 21:51	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B01-DUP**

**Lab Sample ID: 500-44416-9**

Date Collected: 02/22/12 11:45

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0054	J	0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:51	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Arsenic	7.7		0.56	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Barium	73		0.56	0.067	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Beryllium	0.76		0.22	0.016	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Chromium	17		0.56	0.093	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Copper	14		0.56	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Lead	10		0.28	0.096	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Nickel	13		0.56	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Selenium	0.21	J	0.56	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Thallium	0.38	J	0.56	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Zinc	44		1.1	0.38	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Sodium	110		56	10	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Potassium	630	B	28	3.2	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Calcium	1700	B	11	2.0	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Iron	20000		11	4.8	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Vanadium	37		0.28	0.042	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Magnesium	2400	B	5.6	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Boron	1.6	J	2.8	0.52	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Manganese	480		0.56	0.079	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1
Cobalt	8.6		0.28	0.029	mg/Kg	☼	02/28/12 09:30	03/02/12 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:46	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0054	mg/Kg	☼	02/24/12 08:35	02/24/12 12:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.57		0.200	0.200	SU			02/29/12 11:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B02**

**Lab Sample ID: 500-44416-10**

Date Collected: 02/22/12 13:15

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0042		0.0042	0.00046	mg/Kg	☼	02/22/12 13:15	02/28/12 01:40	1
Ethylbenzene	<0.0042		0.0042	0.00064	mg/Kg	☼	02/22/12 13:15	02/28/12 01:40	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00064	mg/Kg	☼	02/22/12 13:15	02/28/12 01:40	1
Toluene	<0.0042		0.0042	0.00082	mg/Kg	☼	02/22/12 13:15	02/28/12 01:40	1
Xylenes, Total	<0.0085		0.0085	0.00059	mg/Kg	☼	02/22/12 13:15	02/28/12 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/22/12 13:15	02/28/12 01:40	1
Dibromofluoromethane	91		69 - 120	02/22/12 13:15	02/28/12 01:40	1
1,2-Dichloroethane-d4 (Surr)	86		69 - 120	02/22/12 13:15	02/28/12 01:40	1
Toluene-d8 (Surr)	88		69 - 122	02/22/12 13:15	02/28/12 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Acenaphthylene	<0.034		0.034	0.0087	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		27 - 113	02/24/12 07:23	03/02/12 19:10	1
Nitrobenzene-d5	85		22 - 110	02/24/12 07:23	03/02/12 19:10	1
Terphenyl-d14	102		33 - 129	02/24/12 07:23	03/02/12 19:10	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:57	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 21:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 21:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 21:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:57	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 21:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:57	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 21:57	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:57	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 21:57	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 21:57	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 21:57	1
<b>Manganese</b>	<b>0.070</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 21:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B02**

**Lab Sample ID: 500-44416-10**

Date Collected: 02/22/12 13:15

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 21:57	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Arsenic	4.8		0.57	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Barium	54		0.57	0.068	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Beryllium	0.55		0.23	0.017	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Cadmium	0.050	J	0.11	0.028	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Chromium	11		0.57	0.095	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Copper	8.6		0.57	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Lead	6.5		0.29	0.098	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Nickel	9.5		0.57	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Thallium	0.22	J	0.57	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Zinc	27		1.1	0.39	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Sodium	130		57	10	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Potassium	550	B	29	3.2	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Calcium	12000	B	11	2.0	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Iron	13000		11	4.9	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Vanadium	25		0.29	0.043	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Magnesium	8200	B	5.7	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Boron	1.9	J	2.9	0.53	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Manganese	390		0.57	0.080	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1
Cobalt	5.0		0.29	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 02:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:48	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0052	mg/Kg	☼	02/24/12 08:35	02/24/12 12:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.42		0.200	0.200	SU			02/29/12 11:46	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B03**

**Lab Sample ID: 500-44416-11**

Date Collected: 02/22/12 13:30

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/22/12 13:30	02/28/12 02:05	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/22/12 13:30	02/28/12 02:05	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/22/12 13:30	02/28/12 02:05	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/22/12 13:30	02/28/12 02:05	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/22/12 13:30	02/28/12 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		67 - 120	02/22/12 13:30	02/28/12 02:05	1
Dibromofluoromethane	95		69 - 120	02/22/12 13:30	02/28/12 02:05	1
1,2-Dichloroethane-d4 (Surr)	92		69 - 120	02/22/12 13:30	02/28/12 02:05	1
Toluene-d8 (Surr)	94		69 - 122	02/22/12 13:30	02/28/12 02:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
Acenaphthylene	<0.035		0.035	0.0088	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Anthracene</b>	<b>0.010</b>	<b>J</b>	0.038	0.0090	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.038	0.0080	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Benzo[a]pyrene</b>	<b>0.14</b>		0.038	0.0070	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.055</b>		0.038	0.0075	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Benzo[g,h,i]perylene</b>	<b>0.36</b>		0.038	0.013	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Benzo[k]fluoranthene</b>	<b>0.050</b>		0.038	0.0091	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Chrysene</b>	<b>0.088</b>		0.038	0.0087	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Fluoranthene</b>	<b>0.049</b>		0.038	0.016	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.088</b>		0.038	0.013	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Phenanthrene</b>	<b>0.037</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1
<b>Pyrene</b>	<b>0.098</b>		0.038	0.014	mg/Kg	☼	02/24/12 07:23	03/06/12 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/24/12 07:23	03/06/12 18:00	1
Nitrobenzene-d5	74		22 - 110	02/24/12 07:23	03/06/12 18:00	1
Terphenyl-d14	89		33 - 129	02/24/12 07:23	03/06/12 18:00	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:03	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 22:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 22:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 22:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:03	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 22:03	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:03	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:03	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:03	1
<b>Zinc</b>	<b>0.030</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 22:03	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 22:03	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 22:03	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B03**

**Lab Sample ID: 500-44416-11**

Date Collected: 02/22/12 13:30

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0085	J	0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Arsenic	3.5		0.55	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Barium	63		0.55	0.065	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Beryllium	0.66		0.22	0.016	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Cadmium	0.34		0.11	0.027	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Chromium	9.9		0.55	0.091	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Copper	11		0.55	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Lead	29		0.27	0.094	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Nickel	8.6		0.55	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Thallium	0.18	J	0.55	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Zinc	34		1.1	0.38	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Sodium	670		55	10	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Potassium	820	B	27	3.1	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Calcium	90000	B E	11	1.9	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Iron	8800		11	4.7	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Vanadium	16		0.27	0.042	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Magnesium	43000	B	5.5	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Boron	8.9		2.7	0.51	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Manganese	490		0.55	0.077	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1
Cobalt	3.2		0.27	0.029	mg/Kg	☼	02/28/12 09:30	03/02/12 02:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:50	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0055	mg/Kg	☼	02/24/12 08:35	02/24/12 12:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			02/29/12 11:50	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B05**

**Lab Sample ID: 500-44416-13**

Date Collected: 02/22/12 14:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0045		0.0045	0.00048	mg/Kg	☼	02/22/12 14:00	02/28/12 02:55	1
Ethylbenzene	<0.0045		0.0045	0.00067	mg/Kg	☼	02/22/12 14:00	02/28/12 02:55	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00067	mg/Kg	☼	02/22/12 14:00	02/28/12 02:55	1
Toluene	<0.0045		0.0045	0.00087	mg/Kg	☼	02/22/12 14:00	02/28/12 02:55	1
Xylenes, Total	<0.0090		0.0090	0.00063	mg/Kg	☼	02/22/12 14:00	02/28/12 02:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		67 - 120				02/22/12 14:00	02/28/12 02:55	1
Dibromofluoromethane	92		69 - 120				02/22/12 14:00	02/28/12 02:55	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 120				02/22/12 14:00	02/28/12 02:55	1
Toluene-d8 (Surr)	89		69 - 122				02/22/12 14:00	02/28/12 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Acenaphthylene	<0.033		0.033	0.0084	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Anthracene	<0.037		0.037	0.0086	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Benzo[b]fluoranthene	<0.037		0.037	0.0071	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		27 - 113				02/24/12 07:23	03/02/12 20:21	1
Nitrobenzene-d5	75		22 - 110				02/24/12 07:23	03/02/12 20:21	1
Terphenyl-d14	93		33 - 129				02/24/12 07:23	03/02/12 20:21	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:16	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 08:00	03/05/12 22:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 22:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 22:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:16	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:16	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 22:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:16	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:16	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:16	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 22:16	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 22:16	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 22:16	1
<b>Manganese</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:16	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-10-B05**

**Lab Sample ID: 500-44416-13**

Date Collected: 02/22/12 14:00

Matrix: Solid

Date Received: 02/23/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:16	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Arsenic	6.1		0.57	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Barium	67		0.57	0.068	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Beryllium	0.62		0.23	0.017	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Cadmium	0.17		0.11	0.028	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Chromium	13		0.57	0.095	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Copper	12		0.57	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Lead	8.6		0.29	0.098	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Nickel	12		0.57	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Thallium	0.25	J	0.57	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Zinc	31		1.1	0.39	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Sodium	170		57	10	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Potassium	860	B	29	3.2	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Calcium	26000	B	11	2.0	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Iron	14000		11	4.9	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Vanadium	26		0.29	0.043	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Magnesium	17000	B	5.7	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Boron	2.6	J	2.9	0.53	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Manganese	550		0.57	0.080	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1
Cobalt	5.5		0.29	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:53	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0053	mg/Kg	☼	02/24/12 08:35	02/24/12 12:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74		0.200	0.200	SU			02/29/12 11:57	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
X	Surrogate is outside control limits
*	LCS or 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-44416</u> Sample Temp: <u>(3.1) (3.6)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-7-B02	2/22	8:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
2	915B-7-B04	2/22	8:50	S	✓	✓					✓	✓	✓	✓		0-6.5'
3	915B-8-B01	2/22	9:20	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
4	915B-8-B02	2/22	10:20	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
5	915B-8-B03	2/22	10:30	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
6	915B-8-B04	2/22	10:45	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
7	915B-9-B01	2/22	11:00	S	✓	✓					✓	✓	✓	✓		0-3.5'
8	915B-10-B01	2/22	11:30	S	✓	✓	✓	✓			✓	✓	✓	✓		0-3.5'
9	915B-10-B01-DUP	2/22	11:45	S	✓	✓	✓	✓			✓	✓	✓	✓		0-3.5'
10	915B-10-B02	2/22	1:15	S	✓	✓	✓	✓			✓	✓	✓	✓		0-3.5'
11	915B-10-B03	2/22	1:30	S	✓	✓	✓	✓			✓	✓	✓	✓		0-3.5'
12	915B-10-B04	2/22	1:45	S	✓	✓	✓	✓			✓	✓	✓	✓		0-3.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 07:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Blank]</u>	Received by: <u>[Blank]</u>	Date/Time: <u>[Blank]</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com		Project Name: <u>PRE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-49916</u> Sample Temp: _____										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-10-B05	2/22	2:00	S			✓	✓			✓	✓	✓	✓		0-3.5'
14	915B-12-B01-1	2/22	2:45	S	✓						✓	✓	✓	✓		0-4'
15	915B-12-B01-2	2/22	3:00	S	✓						✓	✓	✓	✓		4-6.5'
16	915B-12-B02-1	2/22	3:15	S	✓						✓	✓	✓	✓		0-4'
17	915B-12-B02-2	2/22	3:30	S	✓						✓	✓	✓	✓		4-6.5'
18	915B-16-B02	2/22	3:45	S	✓						✓	✓	✓	✓		0-6.5'
19	915B-12-B03-1	2/22	3:55	S	✓						✓	✓	✓	✓		0-4'
20	915B-12-B03-2	2/22	4:00	S	✓						✓	✓	✓	✓		4-6.5'
Relinquished by: <i>[Signature]</i>					Date/Time	2/22/12 16:00										
Relinquished by: <i>[Signature]</i>					Date/Time	2-22-12 17:55										
Relinquished by: <i>[Signature]</i>					Date/Time	2/22/12 16:00										

September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091082

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)



**Client:** Andrews Engineering, Inc.

**Work Order:** 13091082

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091082

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091082-001

Client Sample ID: 915B-10-B02

Matrix: SOLID

Collection Date: 09/20/2013 13:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15		< 0.15	mg/L	1	09/25/2013 12:38	92207



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>R714 McHenry Co</u>	<b>COC No.:</b> <u>1</u> of <u>1</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	<b>Project No.:</b> <u>IDOT 2011-032</u>	<b>Lab Job No.:</b>
		TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<u>13091082</u>
		<b>Sampler:</b> <u>AGI</u>	<b>Sample Temp:</b> <u>23.0 No ICE</u>

**Special Instructions:**  
 See Table 2 for complete parameter lists and minimum reporting limits.  
 \* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.  
 \*\* If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
13091082-201	915B-10-802	9/20/13	1:25	S											X SPLP m/AK TCLP m <sup>2</sup>	0-3,5'
																SAMPLE MAY
																CONTAIN GLASS
																JAR BROKEN
																PN TRANSIT
																SHT 9/23/13

<b>Relinquished by:</b> <u>Shelly Hennessy (AGI)</u>	<b>Received by:</b> <u>Stephanie Haynes Fed-ex</u>	<b>Date/Time:</b> <u>9/23/13 3:40</u>	<b>Date/Time:</b> <u>9/23/13 11:28</u>
<b>Relinquished by:</b>	<b>Received by:</b>	<b>Date/Time:</b>	<b>Date/Time:</b>
<b>Relinquished by:</b>	<b>Received by:</b>	<b>Date/Time:</b>	<b>Date/Time:</b>



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9600 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27458 Longitude: -88.38566

(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: 1118055005 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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.27458 Longitude: -88.38566Uncontaminated 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):

LOCATIONS 915B-11-B01, -B02, -B04, -B05, -B07, -B08 AND -B09 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-11. SEE FIGURES 9 AND 11 AND TABLE 5k OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44374-1

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

I, Steven Gobelman, P.E., L.P.G. (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.

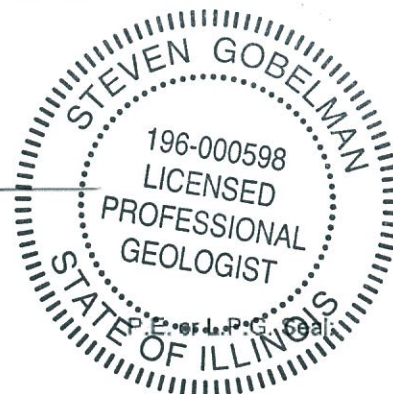
*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date: 2/2/14

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISCS Site 915B-11  
Vacant Lot**

<b>Sample ID</b>	915B-11-B01-1	915B-11-B01-2	915B-11-B02-1	915B-11-B02-2	915B-11-B04-1					
<b>Sample Depth (ft)</b>	0-4	4-6.5	0-4	4-6.5	0-4					
<b>Sample Date</b>	2/20/2012	2/20/2012	2/20/2012	2/20/2012	2/20/2012					
<b>PID</b>	0	0	0	0	0					
<b>Sample pH</b>	7.11	7.98	7.53	7.96	7.99					
<b>Matrix</b>	Soil	Soil	Soil	Soil	Soil					
<b>No Contaminants of Concern Noted.</b>										

<b>Sample ID</b>	915B-11-B04-2	915B-11-B05-1	915B-11-B05-2	915B-11-B07-1	915B-11-B07-2					
<b>Sample Depth (ft)</b>	4-6.5	0-4	4-6.5	0-4	4-6.5					
<b>Sample Date</b>	2/20/2012	2/20/2012	2/20/2012	2/20/2012	2/20/2012					
<b>PID</b>	0	0	0	0	0					
<b>Sample pH</b>	7.77	7.54	8.04	7.91	8.13					
<b>Matrix</b>	Soil	Soil	Soil	Soil	Soil					
<b>No Contaminants of Concern Noted.</b>										

<b>Sample ID</b>	915B-11-B08-1	915B-11-B08-2	915B-11-B09-1	915B-11-B09-2						
<b>Sample Depth (ft)</b>	0-4	4-6.5	0-4	4-6.5						
<b>Sample Date</b>	2/20/2012	2/20/2012	2/20/2012	2/20/2012						
<b>PID</b>	0	0	0	0						
<b>Sample pH</b>	8.09	8.04	7.83	7.66						
<b>Matrix</b>	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>										

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

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TestAmerica Job ID: 500-44374-1

TestAmerica Sample Delivery Group: 500-44374-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/20/2012 11:23:03 AM

Richard Wright

Project Manager II

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

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-1**

**Lab Sample ID: 500-44374-1**

Date Collected: 02/20/12 08:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0023	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Bromoform	<0.0048	*	0.0048	0.00077	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Chlorobenzene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Chloromethane	<0.0048		0.0048	0.00078	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00054	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,1-Dichloroethene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00054	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00081	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Trichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/20/12 08:30	02/23/12 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/20/12 08:30	02/23/12 12:40	1
Dibromofluoromethane	101		69 - 120	02/20/12 08:30	02/23/12 12:40	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 120	02/20/12 08:30	02/23/12 12:40	1
Toluene-d8 (Surr)	109		69 - 122	02/20/12 08:30	02/23/12 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Acenaphthylene	<0.035		0.035	0.0088	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-1**

**Lab Sample ID: 500-44374-1**

Date Collected: 02/20/12 08:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.025</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
<b>Dibenz(a,h)anthracene</b>	<b>0.012</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.013</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-1**

**Lab Sample ID: 500-44374-1**

**Date Collected: 02/20/12 08:30**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Phenanthrene	<0.038	*	0.038	0.016	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		27 - 113	02/22/12 07:07	02/27/12 19:35	1
2-Fluorophenol	92		30 - 110	02/22/12 07:07	02/27/12 19:35	1
Nitrobenzene-d5	96		22 - 110	02/22/12 07:07	02/27/12 19:35	1
Phenol-d5	95		26 - 112	02/22/12 07:07	02/27/12 19:35	1
Terphenyl-d14	98		33 - 129	02/22/12 07:07	02/27/12 19:35	1
2,4,6-Tribromophenol	97		30 - 137	02/22/12 07:07	02/27/12 19:35	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 19:27	1
<b>Barium</b>	<b>0.54</b>		0.50	0.010	mg/L		02/27/12 16:00	02/28/12 19:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 19:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 19:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 19:27	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 19:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 19:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 19:27	1
<b>Selenium</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		02/27/12 16:00	02/28/12 19:27	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 19:27	1
Zinc	<0.10		0.10	0.020	mg/L		02/27/12 16:00	02/28/12 19:27	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 19:27	1
Boron	<0.10		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 19:27	1
<b>Manganese</b>	<b>0.61</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 19:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 19:27	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Arsenic</b>	<b>6.2</b>		0.56	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Barium</b>	<b>46</b>		0.56	0.066	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Beryllium</b>	<b>0.57</b>		0.22	0.016	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.028	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Chromium</b>	<b>12</b>		0.56	0.093	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Copper</b>	<b>15</b>		0.56	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Lead</b>	<b>6.6</b>		0.28	0.096	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Nickel</b>	<b>9.1</b>		0.56	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Zinc</b>	<b>34</b>		1.1	0.38	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Sodium</b>	<b>330</b>		56	10	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Potassium</b>	<b>790</b>		28	3.2	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
<b>Calcium</b>	<b>42000</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-1**

**Lab Sample ID: 500-44374-1**

Date Collected: 02/20/12 08:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 83.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		11	4.8	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Vanadium	28		0.28	0.042	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Magnesium	27000	B	5.6	1.1	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Boron	2.3	J	2.8	0.52	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Manganese	340		0.56	0.079	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1
Cobalt	4.4		0.28	0.029	mg/Kg	☼	02/22/12 14:30	02/24/12 03:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 10:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 10:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 12:46	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.019	0.0059	mg/Kg	☼	02/22/12 07:55	02/22/12 10:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.11		0.200	0.200	SU			02/24/12 13:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-2**

**Lab Sample ID: 500-44374-2**

Date Collected: 02/20/12 08:50

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Bromodichloromethane	<0.0050		0.0050	0.00077	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Bromoform	<0.0050	*	0.0050	0.00082	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Chlorobenzene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Chloroform	<0.0050		0.0050	0.00093	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Chloromethane	<0.0050		0.0050	0.00083	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00074	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Ethylbenzene	<0.0050		0.0050	0.00076	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00086	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00076	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Tetrachloroethene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Toluene	<0.0050		0.0050	0.00098	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/20/12 08:50	02/23/12 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/20/12 08:50	02/23/12 13:05	1
Dibromofluoromethane	97		69 - 120	02/20/12 08:50	02/23/12 13:05	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 120	02/20/12 08:50	02/23/12 13:05	1
Toluene-d8 (Surr)	106		69 - 122	02/20/12 08:50	02/23/12 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
<b>Benzo[a]pyrene</b>	<b>0.0069</b>	<b>J</b>	0.033	0.0061	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
<b>Benzo[b]fluoranthene</b>	<b>0.0070</b>	<b>J</b>	0.033	0.0065	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-2**

**Lab Sample ID: 500-44374-2**

Date Collected: 02/20/12 08:50

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.020</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Chrysene	<0.033		0.033	0.0076	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
<b>Dibenz(a,h)anthracene</b>	<b>0.010</b>	<b>J</b>	0.033	0.0094	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,4-Dimethylphenol	<0.33		0.33	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.082	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,4-Dinitrophenol	<0.68		0.68	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Hexachlorobenzene	<0.068		0.068	0.0066	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Hexachlorocyclopentadiene	<0.68	*	0.68	0.16	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.011</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Naphthalene	<0.033		0.033	0.0065	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2-Nitrophenol	<0.33		0.33	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-2**

**Lab Sample ID: 500-44374-2**

Date Collected: 02/20/12 08:50

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Phenanthrene	<0.033	*	0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		27 - 113	02/22/12 07:07	02/27/12 19:52	1
2-Fluorophenol	85		30 - 110	02/22/12 07:07	02/27/12 19:52	1
Nitrobenzene-d5	90		22 - 110	02/22/12 07:07	02/27/12 19:52	1
Phenol-d5	92		26 - 112	02/22/12 07:07	02/27/12 19:52	1
Terphenyl-d14	100		33 - 129	02/22/12 07:07	02/27/12 19:52	1
2,4,6-Tribromophenol	87		30 - 137	02/22/12 07:07	02/27/12 19:52	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:07	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:07	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Selenium</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:07	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:07	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Boron</b>	<b>0.82</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:07	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:07	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Arsenic</b>	<b>2.6</b>		0.51	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Barium</b>	<b>14</b>		0.51	0.061	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Beryllium</b>	<b>0.24</b>		0.20	0.015	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Cadmium</b>	<b>0.16</b>		0.10	0.025	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Chromium</b>	<b>5.3</b>		0.51	0.085	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Copper</b>	<b>12</b>		0.51	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Lead</b>	<b>2.6</b>		0.25	0.088	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Nickel</b>	<b>7.4</b>		0.51	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Silver	<0.25		0.25	0.031	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Zinc</b>	<b>19</b>		1.0	0.35	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Sodium</b>	<b>250</b>		51	9.3	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Potassium</b>	<b>490</b>		25	2.9	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
<b>Calcium</b>	<b>71000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B01-2**

**Lab Sample ID: 500-44374-2**

Date Collected: 02/20/12 08:50

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 95.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7000		10	4.4	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Vanadium	9.4		0.25	0.039	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Magnesium	39000	B	5.1	0.99	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Boron	3.9		2.5	0.47	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Manganese	230		0.51	0.072	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1
Cobalt	3.0		0.25	0.027	mg/Kg	☼	02/22/12 14:30	02/24/12 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 12:51	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0053	mg/Kg	☼	02/22/12 07:55	02/22/12 10:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			02/24/12 13:24	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-1**

**Lab Sample ID: 500-44374-4**

Date Collected: 02/20/12 10:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0021	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Benzene	<0.0043		0.0043	0.00046	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Bromodichloromethane	<0.0043		0.0043	0.00065	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Bromoform	<0.0043	*	0.0043	0.00069	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Bromomethane	<0.0043		0.0043	0.00091	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
2-Butanone (MEK)	<0.0043		0.0043	0.00092	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Carbon disulfide	<0.0043		0.0043	0.00060	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Chlorobenzene	<0.0043		0.0043	0.00067	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Chloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Chloroform	<0.0043		0.0043	0.00078	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Chloromethane	<0.0043		0.0043	0.00070	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00062	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00048	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Dibromochloromethane	<0.0043		0.0043	0.00059	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,1-Dichloroethane	<0.0043		0.0043	0.00067	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,2-Dichloroethane	<0.0043		0.0043	0.00043	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,1-Dichloroethene	<0.0043		0.0043	0.00067	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,2-Dichloropropane	<0.0043		0.0043	0.00096	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00048	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Ethylbenzene	<0.0043		0.0043	0.00064	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
2-Hexanone	<0.0043		0.0043	0.00060	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00072	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00064	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Styrene	<0.0043		0.0043	0.00054	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Tetrachloroethene	<0.0043		0.0043	0.00081	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Toluene	<0.0043		0.0043	0.00082	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00096	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00082	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00057	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Trichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Vinyl chloride	<0.0043		0.0043	0.00060	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1
Xylenes, Total	<0.0085		0.0085	0.00060	mg/Kg	☼	02/20/12 10:15	02/23/12 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		67 - 120	02/20/12 10:15	02/23/12 13:57	1
Dibromofluoromethane	104		69 - 120	02/20/12 10:15	02/23/12 13:57	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 120	02/20/12 10:15	02/23/12 13:57	1
Toluene-d8 (Surr)	110		69 - 122	02/20/12 10:15	02/23/12 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-1**

**Lab Sample ID: 500-44374-4**

**Date Collected: 02/20/12 10:15**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 85.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.025</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
<b>Dibenz(a,h)anthracene</b>	<b>0.013</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.014</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-1**

**Lab Sample ID: 500-44374-4**

Date Collected: 02/20/12 10:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Phenanthrene	<0.038	*	0.038	0.016	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		27 - 113	02/22/12 07:07	02/27/12 21:34	1
2-Fluorophenol	51		30 - 110	02/22/12 07:07	02/27/12 21:34	1
Nitrobenzene-d5	52		22 - 110	02/22/12 07:07	02/27/12 21:34	1
Phenol-d5	53		26 - 112	02/22/12 07:07	02/27/12 21:34	1
Terphenyl-d14	76		33 - 129	02/22/12 07:07	02/27/12 21:34	1
2,4,6-Tribromophenol	57		30 - 137	02/22/12 07:07	02/27/12 21:34	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:19	1
<b>Barium</b>	<b>0.77</b>		0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:19	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:19	1
<b>Selenium</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:19	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:19	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:19	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:19	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:19	1
<b>Manganese</b>	<b>0.82</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Arsenic</b>	<b>6.2</b>		0.53	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Barium</b>	<b>72</b>		0.53	0.064	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Beryllium</b>	<b>0.58</b>		0.21	0.016	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Cadmium</b>	<b>0.21</b>		0.11	0.026	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Chromium</b>	<b>12</b>		0.53	0.089	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Copper</b>	<b>15</b>		0.53	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Lead</b>	<b>9.5</b>		0.27	0.092	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Nickel</b>	<b>12</b>		0.53	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Thallium</b>	<b>0.21</b>	<b>J</b>	0.53	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Zinc</b>	<b>33</b>		1.1	0.37	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Sodium</b>	<b>95</b>		53	9.8	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Potassium</b>	<b>740</b>		27	3.0	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
<b>Calcium</b>	<b>25000</b>	<b>B</b>	11	1.9	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-1**

**Lab Sample ID: 500-44374-4**

Date Collected: 02/20/12 10:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 85.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000		11	4.6	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
Vanadium	23		0.27	0.041	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
Magnesium	16000	B	5.3	1.0	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
Boron	2.1	J	2.7	0.50	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
Manganese	490		0.53	0.075	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1
Cobalt	5.8		0.27	0.028	mg/Kg	☼	02/22/12 14:30	02/24/12 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 12:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.017	0.0051	mg/Kg	☼	02/22/12 07:55	02/22/12 10:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.53		0.200	0.200	SU			02/24/12 13:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-2**

**Lab Sample ID: 500-44374-5**

Date Collected: 02/20/12 10:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0021	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Benzene	<0.0043		0.0043	0.00047	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Bromodichloromethane	<0.0043		0.0043	0.00066	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Bromoform	<0.0043	*	0.0043	0.00070	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Bromomethane	<0.0043		0.0043	0.00092	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
2-Butanone (MEK)	<0.0043		0.0043	0.00093	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Carbon disulfide	<0.0043		0.0043	0.00061	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Carbon tetrachloride	<0.0043		0.0043	0.00094	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Chlorobenzene	<0.0043		0.0043	0.00068	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Chloroethane	<0.0043		0.0043	0.00091	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Chloroform	<0.0043		0.0043	0.00079	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Chloromethane	<0.0043		0.0043	0.00071	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00063	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00049	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Dibromochloromethane	<0.0043		0.0043	0.00060	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,2-Dichloroethane	<0.0043		0.0043	0.00044	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,1-Dichloroethene	<0.0043		0.0043	0.00068	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,2-Dichloropropane	<0.0043		0.0043	0.00097	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00049	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Ethylbenzene	<0.0043		0.0043	0.00065	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
2-Hexanone	<0.0043		0.0043	0.00061	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00073	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00065	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Styrene	<0.0043		0.0043	0.00054	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Tetrachloroethene	<0.0043		0.0043	0.00082	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Toluene	<0.0043		0.0043	0.00084	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Vinyl chloride	<0.0043		0.0043	0.00060	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1
Xylenes, Total	<0.0086		0.0086	0.00060	mg/Kg	☼	02/20/12 10:30	02/23/12 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/20/12 10:30	02/23/12 14:23	1
Dibromofluoromethane	102		69 - 120	02/20/12 10:30	02/23/12 14:23	1
1,2-Dichloroethane-d4 (Surr)	109		69 - 120	02/20/12 10:30	02/23/12 14:23	1
Toluene-d8 (Surr)	108		69 - 122	02/20/12 10:30	02/23/12 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Acenaphthylene	<0.032		0.032	0.0081	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
<b>Benzo[a]pyrene</b>	<b>0.0071</b>	<b>J</b>	0.035	0.0065	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
<b>Benzo[b]fluoranthene</b>	<b>0.0073</b>	<b>J</b>	0.035	0.0069	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-2**

**Lab Sample ID: 500-44374-5**

**Date Collected: 02/20/12 10:30**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 89.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.019</b>	<b>J</b>	0.035	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Hexachlorocyclopentadiene	<0.71	*	0.71	0.16	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-2**

**Lab Sample ID: 500-44374-5**

Date Collected: 02/20/12 10:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Phenanthrene	<0.035	*	0.035	0.015	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Phenol	<0.18		0.18	0.056	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		27 - 113	02/22/12 07:07	02/27/12 22:08	1
2-Fluorophenol	81		30 - 110	02/22/12 07:07	02/27/12 22:08	1
Nitrobenzene-d5	88		22 - 110	02/22/12 07:07	02/27/12 22:08	1
Phenol-d5	91		26 - 112	02/22/12 07:07	02/27/12 22:08	1
Terphenyl-d14	91		33 - 129	02/22/12 07:07	02/27/12 22:08	1
2,4,6-Tribromophenol	87		30 - 137	02/22/12 07:07	02/27/12 22:08	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:26	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:26	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:26	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:26	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:26	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:26	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:26	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:26	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:26	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:26	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.3		5.3	0.70	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Arsenic</b>	<b>3.5</b>		2.7	0.58	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Barium</b>	<b>15</b>		2.7	0.32	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Beryllium</b>	<b>0.25</b>	<b>J</b>	1.1	0.078	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Cadmium</b>	<b>0.13</b>	<b>J</b>	0.53	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Chromium</b>	<b>6.4</b>		2.7	0.44	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Copper</b>	<b>15</b>		2.7	0.72	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Lead</b>	<b>3.8</b>		1.3	0.46	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Nickel</b>	<b>7.0</b>		2.7	0.58	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Selenium	<2.7		2.7	0.76	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Silver	<1.3		1.3	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Thallium	<2.7		2.7	0.68	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Zinc</b>	<b>21</b>		5.3	1.8	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Sodium</b>	<b>210</b>	<b>J</b>	270	49	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Potassium</b>	<b>440</b>		130	15	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
<b>Calcium</b>	<b>120000</b>	<b>B</b>	53	9.4	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B02-2**

**Lab Sample ID: 500-44374-5**

Date Collected: 02/20/12 10:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 89.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7800		53	23	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Vanadium	11		1.3	0.20	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Magnesium	68000	B	27	5.2	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Boron	4.7	J	13	2.5	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Manganese	280		2.7	0.37	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5
Cobalt	2.9		1.3	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 07:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:00	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0050	mg/Kg	☼	02/22/12 07:55	02/22/12 10:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			02/24/12 13:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-1**

**Lab Sample ID: 500-44374-6**

**Date Collected: 02/20/12 10:45**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 96.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/20/12 10:45	02/23/12 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/20/12 10:45	02/23/12 14:49	1
Dibromofluoromethane	98		69 - 120	02/20/12 10:45	02/23/12 14:49	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 120	02/20/12 10:45	02/23/12 14:49	1
Toluene-d8 (Surr)	108		69 - 122	02/20/12 10:45	02/23/12 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Benzo[a]anthracene	<0.033		0.033	0.0069	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Benzo[a]pyrene	<0.033		0.033	0.0060	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Benzo[b]fluoranthene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-1**

**Lab Sample ID: 500-44374-6**

**Date Collected: 02/20/12 10:45**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 96.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Butyl benzyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Carbazole	<0.17		0.17	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0092	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Fluorene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Hexachlorocyclopentadiene	<0.67	*	0.67	0.15	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-1**

**Lab Sample ID: 500-44374-6**

Date Collected: 02/20/12 10:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Phenanthrene	<0.033	*	0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Phenol	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1
2,4,6-Trichlorophenol	<0.33		0.33	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		27 - 113	02/22/12 07:07	02/27/12 22:25	1
2-Fluorophenol	84		30 - 110	02/22/12 07:07	02/27/12 22:25	1
Nitrobenzene-d5	90		22 - 110	02/22/12 07:07	02/27/12 22:25	1
Phenol-d5	93		26 - 112	02/22/12 07:07	02/27/12 22:25	1
Terphenyl-d14	104		33 - 129	02/22/12 07:07	02/27/12 22:25	1
2,4,6-Tribromophenol	88		30 - 137	02/22/12 07:07	02/27/12 22:25	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:32	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:32	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:32	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:32	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:32	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:32	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:32	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:32	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:32	1
<b>Boron</b>	<b>2.1</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:32	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:32	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:32	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Arsenic</b>	<b>2.9</b>		0.50	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Barium</b>	<b>10</b>		0.50	0.059	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Beryllium</b>	<b>0.23</b>		0.20	0.015	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Cadmium</b>	<b>0.25</b>		0.099	0.025	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Chromium</b>	<b>4.5</b>		0.50	0.083	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Copper</b>	<b>12</b>		0.50	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Lead</b>	<b>2.6</b>		0.25	0.085	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Nickel</b>	<b>5.4</b>		0.50	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Zinc</b>	<b>19</b>		0.99	0.34	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Sodium</b>	<b>220</b>		50	9.1	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Potassium</b>	<b>450</b>		25	2.8	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
<b>Calcium</b>	<b>100000</b>	<b>B E</b>	9.9	1.7	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-1**

**Lab Sample ID: 500-44374-6**

Date Collected: 02/20/12 10:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6800		9.9	4.3	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Vanadium	12		0.25	0.038	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Magnesium	48000	B	5.0	0.96	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Boron	4.2		2.5	0.46	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Manganese	250		0.50	0.070	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1
Cobalt	2.3		0.25	0.026	mg/Kg	☼	02/22/12 14:30	02/24/12 04:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:02	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0052	mg/Kg	☼	02/22/12 07:55	02/22/12 10:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			02/24/12 14:03	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-2**

**Lab Sample ID: 500-44374-7**

Date Collected: 02/20/12 11:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Bromoform	<0.0049	*	0.0049	0.00080	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Chloroform	<0.0049		0.0049	0.00091	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Tetrachloroethene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Toluene	<0.0049		0.0049	0.00096	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1
Xylenes, Total	<0.0099		0.0099	0.00069	mg/Kg	☼	02/20/12 11:00	02/23/12 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		67 - 120	02/20/12 11:00	02/23/12 15:15	1
Dibromofluoromethane	102		69 - 120	02/20/12 11:00	02/23/12 15:15	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 120	02/20/12 11:00	02/23/12 15:15	1
Toluene-d8 (Surr)	110		69 - 122	02/20/12 11:00	02/23/12 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-2**

**Lab Sample ID: 500-44374-7**

**Date Collected: 02/20/12 11:00**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 96.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Chrysene	<0.033		0.033	0.0076	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0094	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,4-Dimethylphenol	<0.33		0.33	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.082	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,4-Dinitrophenol	<0.68		0.68	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Hexachlorobenzene	<0.068		0.068	0.0066	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Hexachlorocyclopentadiene	<0.68	*	0.68	0.16	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Naphthalene	<0.033		0.033	0.0065	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2-Nitrophenol	<0.33		0.33	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-2**

**Lab Sample ID: 500-44374-7**

Date Collected: 02/20/12 11:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Phenanthrene	<0.033	*	0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		27 - 113	02/22/12 07:07	02/27/12 22:42	1
2-Fluorophenol	83		30 - 110	02/22/12 07:07	02/27/12 22:42	1
Nitrobenzene-d5	90		22 - 110	02/22/12 07:07	02/27/12 22:42	1
Phenol-d5	91		26 - 112	02/22/12 07:07	02/27/12 22:42	1
Terphenyl-d14	89		33 - 129	02/22/12 07:07	02/27/12 22:42	1
2,4,6-Tribromophenol	88		30 - 137	02/22/12 07:07	02/27/12 22:42	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:38	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:38	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:38	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:38	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:38	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:38	1
<b>Zinc</b>	<b>0.033</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:38	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:38	1
<b>Boron</b>	<b>2.1</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:38	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:38	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:38	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.1		5.1	0.68	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Arsenic</b>	<b>3.2</b>		2.5	0.56	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Barium</b>	<b>14</b>		2.5	0.30	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Beryllium</b>	<b>0.22</b>	<b>J</b>	1.0	0.075	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Cadmium	<0.51		0.51	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Chromium</b>	<b>4.4</b>		2.5	0.43	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Copper</b>	<b>15</b>		2.5	0.69	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Lead</b>	<b>3.1</b>		1.3	0.44	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Nickel</b>	<b>6.9</b>		2.5	0.56	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Selenium	<2.5		2.5	0.73	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Silver	<1.3		1.3	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Thallium	<2.5		2.5	0.65	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Zinc</b>	<b>21</b>		5.1	1.7	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Sodium</b>	<b>240</b>	<b>J</b>	250	47	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Potassium</b>	<b>420</b>		130	14	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
<b>Calcium</b>	<b>130000</b>	<b>B</b>	51	9.0	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B04-2**

**Lab Sample ID: 500-44374-7**

Date Collected: 02/20/12 11:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8800		51	22	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Vanadium	10		1.3	0.19	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Magnesium	61000	B	25	4.9	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Boron	4.1	J	13	2.4	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Manganese	320		2.5	0.36	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5
Cobalt	2.9		1.3	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 07:23	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:03	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0052	mg/Kg	☼	02/22/12 07:55	02/22/12 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			02/24/12 14:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-1**

**Lab Sample ID: 500-44374-11**

Date Collected: 02/20/12 12:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.030		0.0044	0.0021	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Benzene	<0.0044		0.0044	0.00047	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Bromoform	<0.0044	*	0.0044	0.00071	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Bromomethane	<0.0044		0.0044	0.00094	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
2-Butanone (MEK)	0.0043	J	0.0044	0.00095	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Carbon disulfide	<0.0044		0.0044	0.00062	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Chlorobenzene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Chloroethane	<0.0044		0.0044	0.00092	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00064	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Dibromochloromethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,1-Dichloroethene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,2-Dichloropropane	<0.0044		0.0044	0.00099	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
2-Hexanone	<0.0044		0.0044	0.00062	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00074	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Styrene	<0.0044		0.0044	0.00055	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Tetrachloroethene	<0.0044		0.0044	0.00083	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Toluene	<0.0044		0.0044	0.00085	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Trichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Vinyl chloride	<0.0044		0.0044	0.00061	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1
Xylenes, Total	<0.0088		0.0088	0.00061	mg/Kg	☼	02/20/12 12:00	02/23/12 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/20/12 12:00	02/23/12 16:58	1
Dibromofluoromethane	102		69 - 120	02/20/12 12:00	02/23/12 16:58	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 120	02/20/12 12:00	02/23/12 16:58	1
Toluene-d8 (Surr)	111		69 - 122	02/20/12 12:00	02/23/12 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Acenaphthylene	<0.033		0.033	0.0085	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-1**

**Lab Sample ID: 500-44374-11**

Date Collected: 02/20/12 12:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Hexachlorocyclopentadiene	<0.75	*	0.75	0.17	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-1**

**Lab Sample ID: 500-44374-11**

Date Collected: 02/20/12 12:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Phenanthrene	<0.037	*	0.037	0.016	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/22/12 07:07	02/27/12 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		27 - 113	02/22/12 07:07	02/27/12 23:49	1
2-Fluorophenol	58		30 - 110	02/22/12 07:07	02/27/12 23:49	1
Nitrobenzene-d5	53		22 - 110	02/22/12 07:07	02/27/12 23:49	1
Phenol-d5	60		26 - 112	02/22/12 07:07	02/27/12 23:49	1
Terphenyl-d14	73		33 - 129	02/22/12 07:07	02/27/12 23:49	1
2,4,6-Tribromophenol	70		30 - 137	02/22/12 07:07	02/27/12 23:49	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:50	1
<b>Barium</b>	<b>0.64</b>		0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:50	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:50	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:50	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:50	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:50	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:50	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:50	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:50	1
<b>Boron</b>	<b>2.0</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:50	1
<b>Manganese</b>	<b>3.9</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:50	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:50	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Arsenic</b>	<b>6.4</b>		0.55	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Barium</b>	<b>61</b>		0.55	0.065	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Beryllium</b>	<b>0.55</b>		0.22	0.016	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.027	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Chromium</b>	<b>12</b>		0.55	0.091	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Copper</b>	<b>16</b>		0.55	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Lead</b>	<b>8.2</b>		0.27	0.094	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Nickel</b>	<b>13</b>		0.55	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Zinc</b>	<b>32</b>		1.1	0.37	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Sodium</b>	<b>80</b>		55	10	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Potassium</b>	<b>720</b>		27	3.1	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
<b>Calcium</b>	<b>24000</b>	<b>B</b>	11	1.9	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-1**

**Lab Sample ID: 500-44374-11**

Date Collected: 02/20/12 12:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 88.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000		11	4.7	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Vanadium	21		0.27	0.041	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Magnesium	15000	B	5.5	1.1	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Boron	1.7	J	2.7	0.51	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Manganese	510		0.55	0.077	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1
Cobalt	5.9		0.27	0.029	mg/Kg	☼	02/22/12 14:30	02/24/12 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:07	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.0057	mg/Kg	☼	02/22/12 07:55	02/22/12 10:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			02/24/12 14:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-2**

**Lab Sample ID: 500-44374-12**

**Date Collected: 02/20/12 12:15**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 92.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0040		0.0040	0.0020	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Benzene	<0.0040		0.0040	0.00043	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Bromodichloromethane	<0.0040		0.0040	0.00061	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Bromoform	<0.0040	*	0.0040	0.00065	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Bromomethane	<0.0040		0.0040	0.00086	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
2-Butanone (MEK)	<0.0040		0.0040	0.00086	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Carbon disulfide	<0.0040		0.0040	0.00057	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Chlorobenzene	<0.0040		0.0040	0.00063	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Chloroethane	<0.0040		0.0040	0.00084	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Chloroform	<0.0040		0.0040	0.00074	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Chloromethane	<0.0040		0.0040	0.00066	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00058	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00046	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Dibromochloromethane	<0.0040		0.0040	0.00055	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,1-Dichloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,2-Dichloroethane	<0.0040		0.0040	0.00041	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,1-Dichloroethene	<0.0040		0.0040	0.00063	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,2-Dichloropropane	<0.0040		0.0040	0.00090	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.00046	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Ethylbenzene	<0.0040		0.0040	0.00060	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
2-Hexanone	<0.0040		0.0040	0.00057	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Methylene Chloride	<0.0040		0.0040	0.0011	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00068	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00060	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Styrene	<0.0040		0.0040	0.00050	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Tetrachloroethene	<0.0040		0.0040	0.00076	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Toluene	<0.0040		0.0040	0.00078	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00057	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00054	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Trichloroethene	<0.0040		0.0040	0.00065	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Vinyl chloride	<0.0040		0.0040	0.00056	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1
Xylenes, Total	<0.0080		0.0080	0.00056	mg/Kg	☼	02/20/12 12:15	02/23/12 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		67 - 120	02/20/12 12:15	02/23/12 17:24	1
Dibromofluoromethane	102		69 - 120	02/20/12 12:15	02/23/12 17:24	1
1,2-Dichloroethane-d4 (Surr)	108		69 - 120	02/20/12 12:15	02/23/12 17:24	1
Toluene-d8 (Surr)	111		69 - 122	02/20/12 12:15	02/23/12 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Acenaphthylene	<0.032		0.032	0.0080	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-2**

**Lab Sample ID: 500-44374-12**

**Date Collected: 02/20/12 12:15**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 92.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Benzo[k]fluoranthene	<0.035		0.035	0.0083	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0098	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Diethyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Hexachlorocyclopentadiene	<0.71 *		0.71	0.16	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2-Methylnaphthalene	<0.18		0.18	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2-Methylphenol	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
3 & 4 Methylphenol	<0.18		0.18	0.066	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-2**

**Lab Sample ID: 500-44374-12**

Date Collected: 02/20/12 12:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Phenanthrene	<0.035	*	0.035	0.015	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Phenol	<0.18		0.18	0.055	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		27 - 113	02/22/12 07:07	02/28/12 00:06	1
2-Fluorophenol	89		30 - 110	02/22/12 07:07	02/28/12 00:06	1
Nitrobenzene-d5	89		22 - 110	02/22/12 07:07	02/28/12 00:06	1
Phenol-d5	94		26 - 112	02/22/12 07:07	02/28/12 00:06	1
Terphenyl-d14	93		33 - 129	02/22/12 07:07	02/28/12 00:06	1
2,4,6-Tribromophenol	95		30 - 137	02/22/12 07:07	02/28/12 00:06	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:56	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 20:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 20:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 20:56	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:56	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 20:56	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:56	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 20:56	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:56	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 20:56	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 20:56	1
<b>Boron</b>	<b>2.2</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 20:56	1
<b>Manganese</b>	<b>0.94</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 20:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 20:56	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<11		11	1.4	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Arsenic</b>	<b>4.6</b>	<b>J</b>	5.4	1.2	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Barium</b>	<b>22</b>		5.4	0.64	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Beryllium</b>	<b>0.37</b>	<b>J</b>	2.1	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Cadmium	<1.1		1.1	0.27	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Chromium</b>	<b>12</b>		5.4	0.90	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Copper</b>	<b>29</b>		5.4	1.5	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Lead</b>	<b>4.9</b>		2.7	0.92	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Nickel</b>	<b>8.9</b>		5.4	1.2	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Selenium	<5.4		5.4	1.5	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Silver	<2.7		2.7	0.32	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Thallium	<5.4		5.4	1.4	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Zinc</b>	<b>25</b>		11	3.7	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Sodium</b>	<b>380</b>	<b>J</b>	540	98	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Potassium</b>	<b>680</b>		270	30	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
<b>Calcium</b>	<b>300000</b>	<b>B</b>	110	19	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B08-2**

**Lab Sample ID: 500-44374-12**

Date Collected: 02/20/12 12:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 92.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000		110	47	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Vanadium	19		2.7	0.41	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Magnesium	170000	B	54	10	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Boron	8.4	J	27	5.0	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Manganese	400		5.4	0.76	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10
Cobalt	3.4		2.7	0.28	mg/Kg	☼	02/22/12 14:30	02/24/12 07:35	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:09	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0055	mg/Kg	☼	02/22/12 07:55	02/22/12 10:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			02/24/12 14:50	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-1**

**Lab Sample ID: 500-44374-13**

Date Collected: 02/20/12 12:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0078		0.0051	0.0025	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Benzene	<0.0051		0.0051	0.00055	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Bromodichloromethane	<0.0051		0.0051	0.00077	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Bromoform	<0.0051	*	0.0051	0.00082	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Bromomethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
2-Butanone (MEK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Carbon disulfide	<0.0051		0.0051	0.00072	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Chlorobenzene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Chloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Chloroform	<0.0051		0.0051	0.00093	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Chloromethane	<0.0051		0.0051	0.00083	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00074	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00058	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Dibromochloromethane	<0.0051		0.0051	0.00070	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,2-Dichloroethane	<0.0051		0.0051	0.00052	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,1-Dichloroethene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,2-Dichloropropane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00058	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Ethylbenzene	<0.0051		0.0051	0.00076	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
2-Hexanone	<0.0051		0.0051	0.00072	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.00086	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00076	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Styrene	<0.0051		0.0051	0.00064	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Tetrachloroethene	<0.0051		0.0051	0.00096	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Toluene	<0.0051		0.0051	0.00098	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00097	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00068	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Trichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Vinyl chloride	<0.0051		0.0051	0.00071	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/20/12 12:30	02/23/12 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		67 - 120	02/20/12 12:30	02/23/12 17:50	1
Dibromofluoromethane	95		69 - 120	02/20/12 12:30	02/23/12 17:50	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 120	02/20/12 12:30	02/23/12 17:50	1
Toluene-d8 (Surr)	107		69 - 122	02/20/12 12:30	02/23/12 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-1**

**Lab Sample ID: 500-44374-13**

**Date Collected: 02/20/12 12:30**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 96.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.015</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Hexachlorocyclopentadiene	<0.67	*	0.67	0.15	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-1**

**Lab Sample ID: 500-44374-13**

Date Collected: 02/20/12 12:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Phenanthrene	<0.033	*	0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		27 - 113	02/22/12 07:07	02/28/12 00:23	1
2-Fluorophenol	90		30 - 110	02/22/12 07:07	02/28/12 00:23	1
Nitrobenzene-d5	90		22 - 110	02/22/12 07:07	02/28/12 00:23	1
Phenol-d5	92		26 - 112	02/22/12 07:07	02/28/12 00:23	1
Terphenyl-d14	117		33 - 129	02/22/12 07:07	02/28/12 00:23	1
2,4,6-Tribromophenol	90		30 - 137	02/22/12 07:07	02/28/12 00:23	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:17	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 21:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 21:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 21:17	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:17	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 21:17	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:17	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:17	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:17	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 21:17	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 21:17	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 21:17	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:17	1
<b>Cobalt</b>	<b>0.0074</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:17	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.8		4.8	0.63	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Arsenic</b>	<b>3.2</b>		2.4	0.52	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Barium</b>	<b>13</b>		2.4	0.28	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Beryllium</b>	<b>0.25</b>	<b>J</b>	0.96	0.070	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Cadmium</b>	<b>0.15</b>	<b>J</b>	0.48	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Chromium</b>	<b>5.6</b>		2.4	0.40	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Copper</b>	<b>8.3</b>		2.4	0.65	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Lead</b>	<b>3.4</b>		1.2	0.41	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Nickel</b>	<b>6.6</b>		2.4	0.52	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Selenium	<2.4		2.4	0.69	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Silver	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Thallium	<2.4		2.4	0.61	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Zinc</b>	<b>16</b>		4.8	1.6	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Sodium</b>	<b>160</b>	<b>J</b>	240	44	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Potassium</b>	<b>460</b>		120	14	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
<b>Calcium</b>	<b>120000</b>	<b>B</b>	48	8.4	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
 SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-1**

**Lab Sample ID: 500-44374-13**

Date Collected: 02/20/12 12:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6600		48	21	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Vanadium	9.1		1.2	0.18	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Magnesium	65000	B	24	4.6	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Boron	6.5	J	12	2.2	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Manganese	290		2.4	0.34	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5
Cobalt	2.5		1.2	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 07:42	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:10	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0050	mg/Kg	☼	02/22/12 07:55	02/22/12 11:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			02/24/12 14:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-2**

**Lab Sample ID: 500-44374-14**

Date Collected: 02/20/12 12:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0025	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Benzene	<0.0051		0.0051	0.00055	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Bromodichloromethane	<0.0051		0.0051	0.00078	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Bromoform	<0.0051	*	0.0051	0.00083	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Bromomethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
2-Butanone (MEK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Carbon disulfide	<0.0051		0.0051	0.00073	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Chlorobenzene	<0.0051		0.0051	0.00081	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Chloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Chloroform	<0.0051		0.0051	0.00094	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Chloromethane	<0.0051		0.0051	0.00084	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00075	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00058	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Dibromochloromethane	<0.0051		0.0051	0.00070	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,2-Dichloroethane	<0.0051		0.0051	0.00052	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,1-Dichloroethene	<0.0051		0.0051	0.00081	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,2-Dichloropropane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00058	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Ethylbenzene	<0.0051		0.0051	0.00077	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
2-Hexanone	<0.0051		0.0051	0.00073	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.00087	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00077	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Styrene	<0.0051		0.0051	0.00064	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Tetrachloroethene	<0.0051		0.0051	0.00097	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Toluene	<0.0051		0.0051	0.00099	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00068	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Trichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Vinyl chloride	<0.0051		0.0051	0.00072	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1
Xylenes, Total	<0.010		0.010	0.00072	mg/Kg	☼	02/20/12 12:45	02/23/12 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/20/12 12:45	02/23/12 18:16	1
Dibromofluoromethane	99		69 - 120	02/20/12 12:45	02/23/12 18:16	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 120	02/20/12 12:45	02/23/12 18:16	1
Toluene-d8 (Surr)	109		69 - 122	02/20/12 12:45	02/23/12 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Benzo[a]anthracene	<0.033		0.033	0.0069	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Benzo[a]pyrene	<0.033		0.033	0.0060	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Benzo[b]fluoranthene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-2**

**Lab Sample ID: 500-44374-14**

Date Collected: 02/20/12 12:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Butyl benzyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0092	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Fluorene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Hexachlorocyclopentadiene	<0.67	*	0.67	0.15	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-2**

**Lab Sample ID: 500-44374-14**

Date Collected: 02/20/12 12:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Phenanthrene	<0.033	*	0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Phenol	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		27 - 113	02/22/12 07:07	02/28/12 00:40	1
2-Fluorophenol	61		30 - 110	02/22/12 07:07	02/28/12 00:40	1
Nitrobenzene-d5	63		22 - 110	02/22/12 07:07	02/28/12 00:40	1
Phenol-d5	62		26 - 112	02/22/12 07:07	02/28/12 00:40	1
Terphenyl-d14	67		33 - 129	02/22/12 07:07	02/28/12 00:40	1
2,4,6-Tribromophenol	61		30 - 137	02/22/12 07:07	02/28/12 00:40	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 23:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 23:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 23:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Nickel</b>	<b>0.040</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Selenium</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		02/27/12 16:00	02/28/12 23:10	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Zinc</b>	<b>0.036</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Iron</b>	<b>1.1</b>		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Boron</b>	<b>2.0</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Manganese</b>	<b>3.5</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 23:10	1
<b>Cobalt</b>	<b>0.031</b>		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 23:10	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Arsenic</b>	<b>2.9</b>		0.49	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Barium</b>	<b>9.1</b>		0.49	0.058	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Beryllium</b>	<b>0.24</b>		0.19	0.014	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Cadmium</b>	<b>0.15</b>		0.097	0.024	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Chromium</b>	<b>5.7</b>		0.49	0.081	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Copper</b>	<b>9.7</b>		0.49	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Lead</b>	<b>3.1</b>		0.24	0.084	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Nickel</b>	<b>5.6</b>		0.49	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Thallium	<0.49		0.49	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Zinc</b>	<b>15</b>		0.97	0.33	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Sodium</b>	<b>200</b>		49	8.9	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Potassium</b>	<b>470</b>		24	2.8	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
<b>Calcium</b>	<b>90000</b>	<b>B E</b>	9.7	1.7	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
 SDG: 500-44374-1

**Client Sample ID: 915B-11-B09-2**

**Lab Sample ID: 500-44374-14**

Date Collected: 02/20/12 12:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6200		9.7	4.2	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Vanadium	7.7		0.24	0.037	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Magnesium	44000	B	4.9	0.94	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Boron	5.1		2.4	0.45	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Manganese	220		0.49	0.069	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1
Cobalt	2.3		0.24	0.026	mg/Kg	☼	02/22/12 14:30	02/24/12 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/01/12 07:40	03/01/12 12:37	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0047	mg/Kg	☼	02/22/12 07:55	02/22/12 11:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU			02/24/12 15:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-1**

**Lab Sample ID: 500-44374-15**

Date Collected: 02/20/12 13:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Bromodichloromethane	<0.0044		0.0044	0.00068	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Bromoform	<0.0044	*	0.0044	0.00072	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Bromomethane	<0.0044		0.0044	0.00095	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
2-Butanone (MEK)	<0.0044		0.0044	0.00096	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Carbon disulfide	<0.0044		0.0044	0.00063	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Carbon tetrachloride	<0.0044		0.0044	0.00097	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Chlorobenzene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Chloroethane	<0.0044		0.0044	0.00093	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Chloroform	<0.0044		0.0044	0.00082	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Chloromethane	<0.0044		0.0044	0.00073	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00065	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00051	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,2-Dichloropropane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00051	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Ethylbenzene	<0.0044		0.0044	0.00067	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
2-Hexanone	<0.0044		0.0044	0.00063	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00076	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00067	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Styrene	<0.0044		0.0044	0.00056	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Tetrachloroethene	<0.0044		0.0044	0.00085	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Toluene	<0.0044		0.0044	0.00086	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1
Xylenes, Total	<0.0089		0.0089	0.00062	mg/Kg	☼	02/20/12 13:00	02/23/12 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/20/12 13:00	02/23/12 18:42	1
Dibromofluoromethane	99		69 - 120	02/20/12 13:00	02/23/12 18:42	1
1,2-Dichloroethane-d4 (Surr)	101		69 - 120	02/20/12 13:00	02/23/12 18:42	1
Toluene-d8 (Surr)	110		69 - 122	02/20/12 13:00	02/23/12 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Acenaphthylene	<0.033		0.033	0.0084	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Benzo[a]pyrene	<0.036		0.036	0.0066	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-1**

**Lab Sample ID: 500-44374-15**

**Date Collected: 02/20/12 13:00**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Hexachlorocyclopentadiene	<0.74 *		0.74	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-1**

**Lab Sample ID: 500-44374-15**

**Date Collected: 02/20/12 13:00**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Phenanthrene	<0.036	*	0.036	0.015	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Phenol	<0.18		0.18	0.058	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	44		27 - 113	02/22/12 07:07	02/28/12 00:57	1
2-Fluorophenol	41		30 - 110	02/22/12 07:07	02/28/12 00:57	1
Nitrobenzene-d5	41		22 - 110	02/22/12 07:07	02/28/12 00:57	1
Phenol-d5	43		26 - 112	02/22/12 07:07	02/28/12 00:57	1
Terphenyl-d14	52		33 - 129	02/22/12 07:07	02/28/12 00:57	1
2,4,6-Tribromophenol	47		30 - 137	02/22/12 07:07	02/28/12 00:57	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:24	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		02/27/12 16:00	02/28/12 21:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 21:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 21:24	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:24	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 21:24	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:24	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:24	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:24	1
<b>Zinc</b>	<b>0.029</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 21:24	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 21:24	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 21:24	1
<b>Manganese</b>	<b>0.67</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:24	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:24	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Arsenic</b>	<b>6.3</b>		0.56	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Barium</b>	<b>70</b>		0.56	0.067	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Beryllium</b>	<b>0.58</b>		0.22	0.016	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.028	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Chromium</b>	<b>12</b>		0.56	0.093	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Copper</b>	<b>14</b>		0.56	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Lead</b>	<b>21</b>		0.28	0.096	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Nickel</b>	<b>11</b>		0.56	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Zinc</b>	<b>45</b>		1.1	0.38	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Sodium</b>	<b>120</b>		56	10	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Potassium</b>	<b>670</b>		28	3.2	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
<b>Calcium</b>	<b>30000</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-1**

**Lab Sample ID: 500-44374-15**

Date Collected: 02/20/12 13:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 85.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000		11	4.8	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Vanadium	24		0.28	0.042	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Magnesium	18000	B	5.6	1.1	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Boron	2.0	J	2.8	0.52	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Manganese	420		0.56	0.079	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1
Cobalt	7.2		0.28	0.029	mg/Kg	☼	02/22/12 14:30	02/24/12 05:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:12	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0054	mg/Kg	☼	02/22/12 07:55	02/22/12 11:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			02/24/12 15:13	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-2**

**Lab Sample ID: 500-44374-16**

Date Collected: 02/20/12 13:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Carbon disulfide	<0.0046		0.0046	0.00066	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
2-Hexanone	<0.0046		0.0046	0.00066	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Toluene	<0.0046		0.0046	0.00090	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1
Xylenes, Total	<0.0092		0.0092	0.00065	mg/Kg	☼	02/20/12 13:15	02/23/12 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		67 - 120	02/20/12 13:15	02/23/12 19:09	1
Dibromofluoromethane	94		69 - 120	02/20/12 13:15	02/23/12 19:09	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 120	02/20/12 13:15	02/23/12 19:09	1
Toluene-d8 (Surr)	108		69 - 122	02/20/12 13:15	02/23/12 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Benzo[a]anthracene	<0.033		0.033	0.0069	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Benzo[a]pyrene	<0.033		0.033	0.0060	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Benzo[b]fluoranthene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-2**

**Lab Sample ID: 500-44374-16**

**Date Collected: 02/20/12 13:15**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 96.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.013</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Butyl benzyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Carbazole	<0.17		0.17	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0092	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Fluorene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Hexachlorocyclopentadiene	<0.67	*	0.67	0.15	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2-Nitroaniline	<0.17		0.17	0.059	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-2**

**Lab Sample ID: 500-44374-16**

Date Collected: 02/20/12 13:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Phenanthrene	<0.033	*	0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Phenol	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,4,5-Trichlorophenol	<0.33		0.33	0.094	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1
2,4,6-Trichlorophenol	<0.33		0.33	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/22/12 07:07	02/28/12 01:14	1
2-Fluorophenol	76		30 - 110	02/22/12 07:07	02/28/12 01:14	1
Nitrobenzene-d5	79		22 - 110	02/22/12 07:07	02/28/12 01:14	1
Phenol-d5	84		26 - 112	02/22/12 07:07	02/28/12 01:14	1
Terphenyl-d14	93		33 - 129	02/22/12 07:07	02/28/12 01:14	1
2,4,6-Tribromophenol	83		30 - 137	02/22/12 07:07	02/28/12 01:14	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:30	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 21:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 21:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 21:30	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:30	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 21:30	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:30	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:30	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:30	1
<b>Zinc</b>	<b>0.033</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 21:30	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 21:30	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 21:30	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:30	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Arsenic</b>	<b>3.5</b>		0.50	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Barium</b>	<b>11</b>		0.50	0.060	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Beryllium</b>	<b>0.31</b>		0.20	0.015	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Cadmium</b>	<b>0.21</b>		0.10	0.025	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Chromium</b>	<b>5.7</b>		0.50	0.084	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Copper</b>	<b>14</b>		0.50	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Lead</b>	<b>3.9</b>		0.25	0.086	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Nickel</b>	<b>7.8</b>		0.50	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Zinc</b>	<b>29</b>		1.0	0.34	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Sodium</b>	<b>250</b>		50	9.2	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Potassium</b>	<b>410</b>		25	2.8	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
<b>Calcium</b>	<b>77000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B05-2**

**Lab Sample ID: 500-44374-16**

Date Collected: 02/20/12 13:15

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8400		10	4.4	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Vanadium	13		0.25	0.038	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Magnesium	38000	B	5.0	0.97	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Boron	3.6		2.5	0.47	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Manganese	250		0.50	0.071	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1
Cobalt	3.3		0.25	0.026	mg/Kg	☼	02/22/12 14:30	02/24/12 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:14	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0050	mg/Kg	☼	02/22/12 07:55	02/22/12 11:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			02/24/12 15:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-1**

**Lab Sample ID: 500-44374-17**

Date Collected: 02/20/12 13:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0052		0.0046	0.0023	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/20/12 13:30	02/23/12 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		67 - 120	02/20/12 13:30	02/23/12 19:34	1
Dibromofluoromethane	95		69 - 120	02/20/12 13:30	02/23/12 19:34	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 120	02/20/12 13:30	02/23/12 19:34	1
Toluene-d8 (Surr)	107		69 - 122	02/20/12 13:30	02/23/12 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Acenaphthylene	<0.031		0.031	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-1**

**Lab Sample ID: 500-44374-17**

Date Collected: 02/20/12 13:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.034	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Hexachlorobenzene	<0.069		0.069	0.0068	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Hexachlorocyclopentadiene	<0.69	*	0.69	0.16	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
4-Nitrophenol	<0.69		0.69	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-1**

**Lab Sample ID: 500-44374-17**

Date Collected: 02/20/12 13:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.69		0.69	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Phenanthrene	<0.034	*	0.034	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		27 - 113	02/22/12 07:07	02/28/12 01:31	1
2-Fluorophenol	82		30 - 110	02/22/12 07:07	02/28/12 01:31	1
Nitrobenzene-d5	82		22 - 110	02/22/12 07:07	02/28/12 01:31	1
Phenol-d5	85		26 - 112	02/22/12 07:07	02/28/12 01:31	1
Terphenyl-d14	91		33 - 129	02/22/12 07:07	02/28/12 01:31	1
2,4,6-Tribromophenol	81		30 - 137	02/22/12 07:07	02/28/12 01:31	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:36	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 21:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 21:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:36	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 21:36	1
<b>Nickel</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:36	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:36	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:36	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 21:36	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 21:36	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 21:36	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:36	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:36	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.8		4.8	0.64	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Arsenic</b>	<b>3.2</b>		2.4	0.53	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Barium</b>	<b>13</b>		2.4	0.29	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Beryllium</b>	<b>0.23</b>	<b>J</b>	0.96	0.071	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Cadmium</b>	<b>0.13</b>	<b>J</b>	0.48	0.12	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Chromium</b>	<b>3.9</b>		2.4	0.40	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Copper</b>	<b>18</b>		2.4	0.65	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Lead</b>	<b>4.3</b>		1.2	0.41	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Nickel</b>	<b>6.6</b>		2.4	0.53	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Selenium	<2.4		2.4	0.69	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Silver	<1.2		1.2	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Thallium	<2.4		2.4	0.62	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Zinc</b>	<b>19</b>		4.8	1.7	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Sodium</b>	<b>230</b>	<b>J</b>	240	44	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Potassium</b>	<b>370</b>		120	14	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
<b>Calcium</b>	<b>100000</b>	<b>B</b>	48	8.5	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
 SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-1**

**Lab Sample ID: 500-44374-17**

Date Collected: 02/20/12 13:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 96.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8400		48	21	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Vanadium	12		1.2	0.18	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Magnesium	59000	B	24	4.7	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Boron	4.7	J	12	2.2	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Manganese	310		2.4	0.34	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5
Cobalt	3.1		1.2	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 08:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:15	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0048	mg/Kg	☼	02/22/12 07:55	02/22/12 11:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			02/24/12 15:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-2**

**Lab Sample ID: 500-44374-18**

Date Collected: 02/20/12 13:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/20/12 13:45	02/23/12 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		67 - 120	02/20/12 13:45	02/23/12 20:00	1
Dibromofluoromethane	95		69 - 120	02/20/12 13:45	02/23/12 20:00	1
1,2-Dichloroethane-d4 (Surr)	92		69 - 120	02/20/12 13:45	02/23/12 20:00	1
Toluene-d8 (Surr)	107		69 - 122	02/20/12 13:45	02/23/12 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-2**

**Lab Sample ID: 500-44374-18**

Date Collected: 02/20/12 13:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.013</b>	<b>J</b>	0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Hexachlorocyclopentadiene	<0.67	*	0.67	0.15	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-2**

**Lab Sample ID: 500-44374-18**

Date Collected: 02/20/12 13:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Phenanthrene	<0.033	*	0.033	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		27 - 113	02/22/12 07:07	02/28/12 01:48	1
2-Fluorophenol	89		30 - 110	02/22/12 07:07	02/28/12 01:48	1
Nitrobenzene-d5	85		22 - 110	02/22/12 07:07	02/28/12 01:48	1
Phenol-d5	94		26 - 112	02/22/12 07:07	02/28/12 01:48	1
Terphenyl-d14	101		33 - 129	02/22/12 07:07	02/28/12 01:48	1
2,4,6-Tribromophenol	91		30 - 137	02/22/12 07:07	02/28/12 01:48	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:42	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 21:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 21:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 21:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:42	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 21:42	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:42	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:42	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:42	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 21:42	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 21:42	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 21:42	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:42	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.1		5.1	0.68	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Arsenic</b>	<b>3.6</b>		2.6	0.56	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Barium</b>	<b>15</b>		2.6	0.30	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Beryllium</b>	<b>0.27</b>	<b>J</b>	1.0	0.075	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Cadmium</b>	<b>0.15</b>	<b>J</b>	0.51	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Chromium</b>	<b>6.5</b>		2.6	0.43	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Copper</b>	<b>15</b>		2.6	0.69	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Lead</b>	<b>6.3</b>		1.3	0.44	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Nickel</b>	<b>7.5</b>		2.6	0.56	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Selenium	<2.6		2.6	0.73	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Silver	<1.3		1.3	0.15	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Thallium	<2.6		2.6	0.66	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Zinc</b>	<b>20</b>		5.1	1.8	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Sodium</b>	<b>260</b>		260	47	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Potassium</b>	<b>480</b>		130	14	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
<b>Calcium</b>	<b>130000</b>	<b>B</b>	51	9.0	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-11-B07-2**

**Lab Sample ID: 500-44374-18**

Date Collected: 02/20/12 13:45

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 97.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9900		51	22	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Vanadium	12		1.3	0.19	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Magnesium	72000	B	26	5.0	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Boron	7.0	J	13	2.4	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Manganese	340		2.6	0.36	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5
Cobalt	3.0		1.3	0.13	mg/Kg	☼	02/22/12 14:30	02/24/12 07:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:21	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0048	mg/Kg	☼	02/22/12 07:55	02/22/12 11:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			02/24/12 15:36	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	LCS or LCSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-634-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamerica.com
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		Project Name: <u>Pte 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>1</u> of <u>3</u> Lab Job No.: <u>500-4A374</u> Sample Temp.: <u>(3.2)(3.7)(3.5)</u>

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-11-B01-1	2/20/12	8:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
2	915B-11-B01-2	2/20	8:50	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
3	915B-7-B08	2/20	9:45	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
4	915B-11-B02-1	2/20	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
5	915B-11-B02-2	2/20	10:30	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
6	915B-11-B04-1	2/20	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-4'
7	915B-11-B04-2	2/20	11:00	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
8	915B-11-B06-1	2/20	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
9	915B-11-B06-1Dup	2/20	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
10	915B-11-B06-2	2/20	11:45	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
11	915B-11-B08-1	2/20	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-4'
12	915B-11-B08-2	2/20	12:15	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 15:16</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 15:16</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>RTD 10</u>	<b>COC No:</b> <u>2</u> of <u>3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-44374</u> Sample Temp:

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
13	915B-11-809-1	2/20	12:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
14	915B-11-809-2	2/20	12:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
15	915B-11-805-1	2/20	1:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
16	915B-11-805-2	2/20	1:15	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
17	915B-11-807-1	2/20	1:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
18	915B-11-807-2	2/20	1:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
19	915B-16-803	2/20	2:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
20	915B-16-805	2/20	2:20	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
21	915B-16-808	2/20	2:40	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
22	915B-17-801	2/20	3:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
23	915B-18-801	2/20	3:10	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
24	915B-19-801	2/20	3:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>Rte 19</u> Project No.: <u>DOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>3</u> of <u>3</u> Lab Job No.: <u>500-9437A</u> Sample Temp:
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**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments	
25	915B-19-601	2/20	4:00	W	✓	✓					✓		✓			14.0	
26	TRIP BLANK	2/20	--	W													2 vials T.B.

Relinquished by: <u>[Signature]</u> Date/Time: <u>2-20-12 16:20</u>	Received by: <u>[Signature]</u> Date/Time: <u>2-20-12 16:23</u>
Relinquished by: <u>[Signature]</u> Date/Time: <u>2-20-12 18:14</u>	Received by: <u>[Signature]</u> Date/Time: <u>2-20-12 18:14</u>
Relinquished by: <u>[Signature]</u> Date/Time: <u>2-20-12 18:14</u>	Received by: <u>[Signature]</u> Date/Time: <u>2-20-12 18:14</u>







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9604 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27543 Longitude: -88.38627

(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: 1110955190 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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27543 Longitude: -88.38627

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):

LOCATIONS 915B-12-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-12. SEE FIGURES 9, 10 AND 11 AND TABLE 5I OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44440-1 AND 500-44416-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/8/14  
Date:



Seal:

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISCS Site 915B-12  
Vacant Building**

Sample ID	915B-12-B01-1	915B-12-B01-2	915B-12-B02-1	915B-12-B02-2								
Sample Depth (ft)	0-4	4-6.5	0-4	4-6.5								
Sample Date	2/22/2012	2/22/2012	2/22/2012	2/22/2012								
PID	0	0	0	0								
Sample pH	8.5	8.01	8.7	8.71								
Matrix	Soil	Soil	Soil	Soil								
<b>Semivolatile Organic Compounds (mg/kg)</b>												
Benzo(a)pyrene	ND	ND	ND	ND	0.09	0.09	0.09	0.98	1.3	2.1	2.1	NA

Sample ID	915B-12-B03-1	915B-12-B03-2	915B-12-B04-1	915B-12-B04-2								
Sample Depth (ft)	0-4	4-6.5	0-4	4-6.5								
Sample Date	2/22/2012	2/22/2012	2/23/2012	2/23/2012								
PID	0	0	0	0								
Sample pH	8.22	8.26	7.56	6.61								
Matrix	Soil	Soil	Soil	Soil								
<b>Semivolatile Organic Compounds (mg/kg)</b>												
Benzo(a)pyrene	0.17	1.2	ND	ND	0.09	0.09	0.09	0.98	1.3	2.1	2.1	NA

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

Data Delivery Analyst

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Designee for

Richard Wright

Project Manager II

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-1**

**Lab Sample ID: 500-44440-1**

Date Collected: 02/23/12 08:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Bromoform	<0.0047		0.0047	0.00076	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Chloroethane	<0.0047	*	0.0047	0.00098	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/23/12 08:20	02/29/12 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		67 - 120	02/23/12 08:20	02/29/12 00:22	1
Dibromofluoromethane	110		69 - 120	02/23/12 08:20	02/29/12 00:22	1
1,2-Dichloroethane-d4 (Surr)	107		69 - 120	02/23/12 08:20	02/29/12 00:22	1
Toluene-d8 (Surr)	111		69 - 122	02/23/12 08:20	02/29/12 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Acenaphthylene	<0.036		0.036	0.0090	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-1**

**Lab Sample ID: 500-44440-1**

**Date Collected: 02/23/12 08:20**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 84.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Hexachlorobenzene	<0.079		0.079	0.0078	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-1**

**Lab Sample ID: 500-44440-1**

Date Collected: 02/23/12 08:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		27 - 113	02/27/12 18:07	03/02/12 15:39	1
2-Fluorophenol	51		30 - 110	02/27/12 18:07	03/02/12 15:39	1
Nitrobenzene-d5	64		22 - 110	02/27/12 18:07	03/02/12 15:39	1
Phenol-d5	57		26 - 112	02/27/12 18:07	03/02/12 15:39	1
Terphenyl-d14	83		33 - 129	02/27/12 18:07	03/02/12 15:39	1
2,4,6-Tribromophenol	80		30 - 137	02/27/12 18:07	03/02/12 15:39	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 10:29	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 10:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 10:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 10:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:29	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 10:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:29	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 10:29	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 10:29	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 10:29	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 10:29	1
<b>Boron</b>	<b>0.079</b>	<b>J</b>	0.10	0.050	mg/L		03/05/12 16:20	03/06/12 10:29	1
<b>Manganese</b>	<b>0.046</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 10:29	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Arsenic</b>	<b>7.7</b>		0.59	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Barium</b>	<b>120</b>		0.59	0.070	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Beryllium</b>	<b>0.79</b>		0.23	0.017	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Cadmium</b>	<b>0.039</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Chromium</b>	<b>18</b>		0.59	0.098	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Copper</b>	<b>14</b>		0.59	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Lead</b>	<b>11</b>		0.29	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Nickel</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Selenium</b>	<b>0.37</b>	<b>J</b>	0.59	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Thallium</b>	<b>0.20</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Zinc</b>	<b>42</b>		1.2	0.40	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Sodium</b>	<b>160</b>		59	11	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Potassium</b>	<b>800</b>		29	3.3	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
<b>Calcium</b>	<b>2300</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-1**

**Lab Sample ID: 500-44440-1**

Date Collected: 02/23/12 08:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000		12	5.1	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
Vanadium	30		0.29	0.045	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
Magnesium	2900		5.9	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
Boron	1.6	J	2.9	0.55	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
Manganese	470		0.59	0.083	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1
Cobalt	8.6		0.29	0.031	mg/Kg	☼	02/29/12 16:45	03/03/12 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:31	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0059	mg/Kg	☼	02/28/12 13:45	02/29/12 10:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.56		0.200	0.200	SU			03/01/12 17:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-2**

**Lab Sample ID: 500-44440-2**

Date Collected: 02/23/12 08:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Bromoform	<0.0046		0.0046	0.00074	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Chloroethane	<0.0046	*	0.0046	0.00096	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/23/12 08:30	02/29/12 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		67 - 120	02/23/12 08:30	02/29/12 00:47	1
Dibromofluoromethane	93		69 - 120	02/23/12 08:30	02/29/12 00:47	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 120	02/23/12 08:30	02/29/12 00:47	1
Toluene-d8 (Surr)	89		69 - 122	02/23/12 08:30	02/29/12 00:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Acenaphthylene	<0.034		0.034	0.0087	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-2**

**Lab Sample ID: 500-44440-2**

Date Collected: 02/23/12 08:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
4-Nitrophenol	<0.77		0.77	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-2**

**Lab Sample ID: 500-44440-2**

Date Collected: 02/23/12 08:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		27 - 113	02/27/12 18:07	03/02/12 16:00	1
2-Fluorophenol	55		30 - 110	02/27/12 18:07	03/02/12 16:00	1
Nitrobenzene-d5	68		22 - 110	02/27/12 18:07	03/02/12 16:00	1
Phenol-d5	58		26 - 112	02/27/12 18:07	03/02/12 16:00	1
Terphenyl-d14	80		33 - 129	02/27/12 18:07	03/02/12 16:00	1
2,4,6-Tribromophenol	82		30 - 137	02/27/12 18:07	03/02/12 16:00	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 10:35	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 10:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 10:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 10:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:35	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 10:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:35	1
<b>Selenium</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		03/05/12 16:20	03/06/12 10:35	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 10:35	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 10:35	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 10:35	1
<b>Boron</b>	<b>0.087</b>	<b>J</b>	0.10	0.050	mg/L		03/05/12 16:20	03/06/12 10:35	1
<b>Manganese</b>	<b>0.074</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 10:35	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 10:35	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Arsenic</b>	<b>8.3</b>		0.58	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Barium</b>	<b>82</b>		0.58	0.069	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Beryllium</b>	<b>0.81</b>		0.23	0.017	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Cadmium</b>	<b>0.029</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Chromium</b>	<b>17</b>		0.58	0.097	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Copper</b>	<b>17</b>		0.58	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Lead</b>	<b>10</b>		0.29	0.099	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Nickel</b>	<b>16</b>		0.58	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.58	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Thallium</b>	<b>0.38</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Zinc</b>	<b>43</b>		1.2	0.40	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Sodium</b>	<b>61</b>		58	11	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Potassium</b>	<b>800</b>		29	3.3	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
<b>Calcium</b>	<b>2100</b>	<b>B</b>	12	2.0	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-12-B04-2**

**Lab Sample ID: 500-44440-2**

Date Collected: 02/23/12 08:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21000		12	5.0	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
Vanadium	31		0.29	0.044	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
Magnesium	2800		5.8	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
Boron	1.9	J	2.9	0.54	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
Manganese	440		0.58	0.081	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1
Cobalt	6.8		0.29	0.030	mg/Kg	☼	02/29/12 16:45	03/03/12 04:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:36	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0052	mg/Kg	☼	02/28/12 13:45	02/29/12 10:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.61		0.200	0.200	SU			03/01/12 17:20	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Information</b> Project Name: RTE 14 Project No.: IDOT2011-032 TAT: <input checked="" type="checkbox"/> 16 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler:	<b>Administrative</b> COC No: 1 of 3 Lab Job No.: 500-44440 Sample Temp: (28)(32)(35)															
<b>SPECIAL INSTRUCTIONS:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.																		
<b>ANALYSES</b>																		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments		
1	915B-12-B04-1	2/23	8:20	S	✓	✓					✓	✓	✓	✓		0-4'		
2	915B-12-B04-2	2/23	8:30	S	✓	✓					✓	✓	✓	✓		4-6.5'		
3	915B-16-B01	2/23	8:45	S	✓	✓					✓	✓	✓	✓		0-6.5'		
4	915B-15-B01	2/23	9:10	S	✓	✓					✓	✓	✓	✓		0-6.5'		
5	915B-14-B01	2/23	9:30	S	✓	✓					✓	✓	✓	✓		0-6.5'		
6	915B-14-B01DUP	2/23	9:40	S	✓	✓					✓	✓	✓	✓		0-6.5'		
7	915B-13-B01	2/23	10:00	S	✓	✓					✓	✓	✓	✓		0-6.5'		
8	915B-16-B04	2/23	10:30	S	✓	✓					✓	✓	✓	✓		0-3.5'		
9	915B-16-B06	2/23	10:40	S	✓	✓					✓	✓	✓	✓		0-3.5'		
10	915B-16-B09	2/23	11:00	S	✓	✓					✓	✓	✓	✓		0-3.5'		
11	915B-16-B07	2/23	10:50	S	✓	✓					✓	✓	✓	✓		0-3.5'		
12	915B-16-B10	2/23	11:10	S	✓	✓					✓	✓	✓	✓		0-3.5'		
Relinquished by: [Signature]					Date/Time: 2/23/12 16:00					Received by: [Signature]							Date/Time: 2-23-12/11:00	
Relinquished by: [Signature]					Date/Time: 2-23/2/8/12					Received by: [Signature]							Date/Time: 2/24/12 0700	
Relinquished by: [Signature]					Date/Time:					Received by:							Date/Time:	



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments
13	915B-16-BD01P	2/23	11:20	S	✓	✓					✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓	✓			✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓	✓			✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓	✓			✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:20	S	✓	✓			✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓	✓			✓		✓	✓	✓	✓		5-9.0'
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1600										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										



# CHAIN OF CUSTODY RECORD

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# 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: 500-44416-1

TestAmerica Sample Delivery Group: 500-44416-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:20:03 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-1**

**Lab Sample ID: 500-44416-14**

Date Collected: 02/22/12 14:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0021	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Benzene	<0.0043		0.0043	0.00047	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Bromodichloromethane	<0.0043		0.0043	0.00065	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Bromoform	<0.0043	*	0.0043	0.00070	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Bromomethane	<0.0043		0.0043	0.00092	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
2-Butanone (MEK)	<0.0043		0.0043	0.00093	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Carbon disulfide	<0.0043		0.0043	0.00061	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Carbon tetrachloride	<0.0043		0.0043	0.00094	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Chlorobenzene	<0.0043		0.0043	0.00068	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Chloroethane	<0.0043		0.0043	0.00090	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Chloroform	<0.0043		0.0043	0.00079	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Chloromethane	<0.0043		0.0043	0.00071	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00063	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00049	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Dibromochloromethane	<0.0043		0.0043	0.00059	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,2-Dichloroethane	<0.0043		0.0043	0.00044	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,1-Dichloroethene	<0.0043		0.0043	0.00068	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,2-Dichloropropane	<0.0043		0.0043	0.00097	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00049	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Ethylbenzene	<0.0043		0.0043	0.00065	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
2-Hexanone	<0.0043		0.0043	0.00061	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00073	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00065	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Styrene	<0.0043	*	0.0043	0.00054	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Tetrachloroethene	<0.0043		0.0043	0.00082	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Toluene	<0.0043		0.0043	0.00084	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Vinyl chloride	<0.0043		0.0043	0.00060	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1
Xylenes, Total	<0.0086		0.0086	0.00060	mg/Kg	☼	02/22/12 14:45	02/28/12 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/22/12 14:45	02/28/12 03:20	1
Dibromofluoromethane	90		69 - 120	02/22/12 14:45	02/28/12 03:20	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 120	02/22/12 14:45	02/28/12 03:20	1
Toluene-d8 (Surr)	90		69 - 122	02/22/12 14:45	02/28/12 03:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Acenaphthylene	<0.034		0.034	0.0085	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-1**

**Lab Sample ID: 500-44416-14**

Date Collected: 02/22/12 14:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-1**

**Lab Sample ID: 500-44416-14**

Date Collected: 02/22/12 14:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/24/12 07:23	03/05/12 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		27 - 113	02/24/12 07:23	03/05/12 19:05	1
2-Fluorophenol	73		30 - 110	02/24/12 07:23	03/05/12 19:05	1
Nitrobenzene-d5	67		22 - 110	02/24/12 07:23	03/05/12 19:05	1
Phenol-d5	76		26 - 112	02/24/12 07:23	03/05/12 19:05	1
Terphenyl-d14	101		33 - 129	02/24/12 07:23	03/05/12 19:05	1
2,4,6-Tribromophenol	86		30 - 137	02/24/12 07:23	03/05/12 19:05	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:22	1
<b>Barium</b>	<b>0.68</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 22:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 22:22	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 22:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:22	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:22	1
<b>Lead</b>	<b>0.0050</b>	<b>J</b>	0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 22:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:22	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:22	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:22	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 22:22	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 22:22	1
<b>Boron</b>	<b>1.3</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 22:22	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:22	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:22	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Arsenic</b>	<b>4.5</b>		0.54	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Barium</b>	<b>28</b>		0.54	0.065	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Beryllium</b>	<b>0.37</b>		0.22	0.016	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.027	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Chromium</b>	<b>8.2</b>		0.54	0.091	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Copper</b>	<b>12</b>		0.54	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Lead</b>	<b>22</b>		0.27	0.093	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Nickel</b>	<b>7.8</b>		0.54	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Selenium	<0.54		0.54	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Zinc</b>	<b>25</b>		1.1	0.37	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Sodium</b>	<b>520</b>		54	9.9	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Potassium</b>	<b>690</b>	<b>B</b>	27	3.1	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
<b>Calcium</b>	<b>84000</b>	<b>B E</b>	11	1.9	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-1**

**Lab Sample ID: 500-44416-14**

Date Collected: 02/22/12 14:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 86.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9300		11	4.7	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Vanadium	16		0.27	0.041	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Magnesium	50000	B	5.4	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Boron	4.1		2.7	0.51	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Manganese	290		0.54	0.077	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1
Cobalt	3.0		0.27	0.028	mg/Kg	☼	02/28/12 09:30	03/02/12 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0054	mg/Kg	☼	02/24/12 08:35	02/24/12 12:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			02/29/12 12:01	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-2**

**Lab Sample ID: 500-44416-15**

Date Collected: 02/22/12 15:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Bromoform	<0.0044	*	0.0044	0.00071	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Bromomethane	<0.0044		0.0044	0.00094	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
2-Butanone (MEK)	<0.0044		0.0044	0.00095	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Carbon disulfide	<0.0044		0.0044	0.00063	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Carbon tetrachloride	<0.0044		0.0044	0.00096	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Chlorobenzene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Chloroethane	<0.0044		0.0044	0.00093	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00064	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,2-Dichloropropane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
2-Hexanone	<0.0044		0.0044	0.00063	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Styrene	<0.0044	*	0.0044	0.00056	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Tetrachloroethene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Toluene	<0.0044		0.0044	0.00085	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Trichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1
Xylenes, Total	<0.0088		0.0088	0.00062	mg/Kg	☼	02/22/12 15:00	02/28/12 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		67 - 120	02/22/12 15:00	02/28/12 03:44	1
Dibromofluoromethane	93		69 - 120	02/22/12 15:00	02/28/12 03:44	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/22/12 15:00	02/28/12 03:44	1
Toluene-d8 (Surr)	92		69 - 122	02/22/12 15:00	02/28/12 03:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-2**

**Lab Sample ID: 500-44416-15**

**Date Collected: 02/22/12 15:00**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-2**

**Lab Sample ID: 500-44416-15**

Date Collected: 02/22/12 15:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		27 - 113	02/24/12 07:23	03/02/12 21:08	1
2-Fluorophenol	85		30 - 110	02/24/12 07:23	03/02/12 21:08	1
Nitrobenzene-d5	78		22 - 110	02/24/12 07:23	03/02/12 21:08	1
Phenol-d5	80		26 - 112	02/24/12 07:23	03/02/12 21:08	1
Terphenyl-d14	112		33 - 129	02/24/12 07:23	03/02/12 21:08	1
2,4,6-Tribromophenol	101		30 - 137	02/24/12 07:23	03/02/12 21:08	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:28	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 22:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 22:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 22:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:28	1
<b>Copper</b>	<b>0.012 J</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:28	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 22:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:28	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:28	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:28	1
<b>Zinc</b>	<b>0.029 J</b>		0.10	0.020	mg/L		03/05/12 08:00	03/05/12 22:28	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 22:28	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 22:28	1
<b>Manganese</b>	<b>0.39</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:28	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:28	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Arsenic</b>	<b>6.3</b>		0.56	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Barium</b>	<b>100</b>		0.56	0.067	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Beryllium</b>	<b>0.72</b>		0.22	0.016	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Cadmium</b>	<b>0.39</b>		0.11	0.028	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Chromium</b>	<b>14</b>		0.56	0.093	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Copper</b>	<b>15</b>		0.56	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Lead</b>	<b>27</b>		0.28	0.096	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Nickel</b>	<b>14</b>		0.56	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Thallium</b>	<b>0.28 J</b>		0.56	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Zinc</b>	<b>170</b>		1.1	0.38	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Sodium</b>	<b>2200</b>		56	10	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Potassium</b>	<b>890 B</b>		28	3.2	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
<b>Calcium</b>	<b>5900 B</b>		11	2.0	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B01-2**

**Lab Sample ID: 500-44416-15**

Date Collected: 02/22/12 15:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 81.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000		11	4.8	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
Vanadium	28		0.28	0.042	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
Magnesium	4500	B	5.6	1.1	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
Boron	2.4	J	2.8	0.52	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
Manganese	580	E	0.56	0.079	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1
Cobalt	7.1		0.28	0.029	mg/Kg	☼	02/28/12 09:30	03/02/12 03:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:56	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050		0.018	0.0056	mg/Kg	☼	02/24/12 08:35	02/24/12 12:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			02/29/12 12:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-1**

**Lab Sample ID: 500-44416-16**

Date Collected: 02/22/12 15:15

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0022	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Benzene	<0.0045		0.0045	0.00049	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Bromodichloromethane	<0.0045		0.0045	0.00069	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Bromoform	<0.0045	*	0.0045	0.00073	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Bromomethane	<0.0045		0.0045	0.00096	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
2-Butanone (MEK)	<0.0045		0.0045	0.00097	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Carbon disulfide	<0.0045		0.0045	0.00064	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Carbon tetrachloride	<0.0045		0.0045	0.00098	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Chlorobenzene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Chloroethane	<0.0045		0.0045	0.00095	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Chloroform	<0.0045		0.0045	0.00083	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Chloromethane	<0.0045		0.0045	0.00074	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00066	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00051	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Dibromochloromethane	<0.0045		0.0045	0.00062	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,2-Dichloroethane	<0.0045		0.0045	0.00046	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,1-Dichloroethene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,2-Dichloropropane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00051	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Ethylbenzene	<0.0045		0.0045	0.00068	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
2-Hexanone	<0.0045		0.0045	0.00064	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Methylene Chloride	<0.0045		0.0045	0.0013	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00077	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00068	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Styrene	<0.0045	*	0.0045	0.00057	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Tetrachloroethene	<0.0045		0.0045	0.00086	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Toluene	<0.0045		0.0045	0.00087	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00060	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Trichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Vinyl chloride	<0.0045		0.0045	0.00063	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1
Xylenes, Total	<0.0090		0.0090	0.00063	mg/Kg	☼	02/22/12 15:15	02/28/12 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		67 - 120	02/22/12 15:15	02/28/12 04:09	1
Dibromofluoromethane	86		69 - 120	02/22/12 15:15	02/28/12 04:09	1
1,2-Dichloroethane-d4 (Surr)	84		69 - 120	02/22/12 15:15	02/28/12 04:09	1
Toluene-d8 (Surr)	89		69 - 122	02/22/12 15:15	02/28/12 04:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
<b>Anthracene</b>	<b>0.0094</b>	<b>J</b>	0.033	0.0078	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.033	0.0069	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Benzo[a]pyrene	<0.033		0.033	0.0060	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.033	0.0064	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-1**

**Lab Sample ID: 500-44416-16**

**Date Collected: 02/22/12 15:15**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 97.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Butyl benzyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Carbazole	<0.17		0.17	0.046	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
<b>Chrysene</b>	<b>0.017</b>	<b>J</b>	0.033	0.0075	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0092	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
<b>Fluoranthene</b>	<b>0.062</b>		0.033	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Fluorene	<0.033		0.033	0.0075	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2-Nitroaniline	<0.17		0.17	0.059	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-1**

**Lab Sample ID: 500-44416-16**

Date Collected: 02/22/12 15:15

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
<b>Phenanthrene</b>	<b>0.066</b>		0.033	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
Phenol	<0.17		0.17	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
<b>Pyrene</b>	<b>0.043</b>		0.033	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,4,5-Trichlorophenol	<0.33		0.33	0.094	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	1
2,4,6-Trichlorophenol	<0.33		0.33	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 21:32	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	80		27 - 113				02/24/12 07:23	03/02/12 21:32	1
2-Fluorophenol	84		30 - 110				02/24/12 07:23	03/02/12 21:32	1
Nitrobenzene-d5	78		22 - 110				02/24/12 07:23	03/02/12 21:32	1
Phenol-d5	86		26 - 112				02/24/12 07:23	03/02/12 21:32	1
Terphenyl-d14	105		33 - 129				02/24/12 07:23	03/02/12 21:32	1
2,4,6-Tribromophenol	102		30 - 137				02/24/12 07:23	03/02/12 21:32	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:34	1
<b>Barium</b>	<b>0.84</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 22:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 22:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:34	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:34	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 22:34	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:34	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:34	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:34	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 08:00	03/05/12 22:34	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 22:34	1
<b>Boron</b>	<b>0.71</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 22:34	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:34	1
<b>Cobalt</b>	<b>0.0077</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Arsenic</b>	<b>2.9</b>		0.49	0.11	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Barium</b>	<b>12</b>		0.49	0.058	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Beryllium</b>	<b>0.41</b>		0.20	0.014	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Cadmium</b>	<b>0.22</b>		0.098	0.024	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Chromium</b>	<b>4.5</b>		0.49	0.082	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Copper</b>	<b>9.1</b>		0.49	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Lead</b>	<b>7.5</b>		0.24	0.084	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Nickel</b>	<b>4.8</b>		0.49	0.11	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Thallium	<0.49		0.49	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Zinc</b>	<b>56</b>		0.98	0.34	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Sodium</b>	<b>400</b>		49	9.0	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Potassium</b>	<b>470</b>	<b>B</b>	24	2.8	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
<b>Calcium</b>	<b>71000</b>	<b>B E</b>	9.8	1.7	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
 SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-1**

**Lab Sample ID: 500-44416-16**

Date Collected: 02/22/12 15:15

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7000		9.8	4.2	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Vanadium	11		0.24	0.037	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Magnesium	31000	B	4.9	0.95	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Boron	2.7		2.4	0.46	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Manganese	170		0.49	0.069	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1
Cobalt	2.5		0.24	0.026	mg/Kg	☼	02/28/12 09:30	03/02/12 03:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 09:58	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0049	mg/Kg	☼	02/24/12 08:35	02/24/12 12:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			02/29/12 12:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-2**

**Lab Sample ID: 500-44416-17**

Date Collected: 02/22/12 15:30

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Carbon disulfide	<0.0046		0.0046	0.00066	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
2-Hexanone	<0.0046		0.0046	0.00066	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00079	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Styrene	<0.0046	*	0.0046	0.00058	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
<b>Toluene</b>	<b>0.0013</b>	<b>J</b>	0.0046	0.00090	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1
Xylenes, Total	<0.0092		0.0092	0.00065	mg/Kg	*	02/22/12 15:30	02/28/12 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		67 - 120	02/22/12 15:30	02/28/12 04:34	1
Dibromofluoromethane	91		69 - 120	02/22/12 15:30	02/28/12 04:34	1
1,2-Dichloroethane-d4 (Surr)	84		69 - 120	02/22/12 15:30	02/28/12 04:34	1
Toluene-d8 (Surr)	88		69 - 122	02/22/12 15:30	02/28/12 04:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	*	02/24/12 07:23	03/05/12 19:28	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	*	02/24/12 07:23	03/05/12 19:28	1
<b>Anthracene</b>	<b>0.035</b>		0.033	0.0079	mg/Kg	*	02/24/12 07:23	03/05/12 19:28	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.033	0.0070	mg/Kg	*	02/24/12 07:23	03/05/12 19:28	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	*	02/24/12 07:23	03/05/12 19:28	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	*	02/24/12 07:23	03/05/12 19:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-2**

**Lab Sample ID: 500-44416-17**

**Date Collected: 02/22/12 15:30**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 97.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
<b>Chrysene</b>	<b>0.026</b>	<b>J</b>	0.033	0.0076	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0094	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,4-Dimethylphenol	<0.33		0.33	0.11	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,4-Dinitrophenol	<0.68		0.68	0.17	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
<b>Fluoranthene</b>	<b>0.094</b>		0.033	0.014	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
<b>Fluorene</b>	<b>0.011</b>	<b>J</b>	0.033	0.0076	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Hexachlorobenzene	<0.068		0.068	0.0066	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
<b>Naphthalene</b>	<b>0.0088</b>	<b>J</b>	0.033	0.0065	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2-Nitrophenol	<0.33		0.33	0.053	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-2**

**Lab Sample ID: 500-44416-17**

Date Collected: 02/22/12 15:30

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
<b>Phenanthrene</b>	<b>0.16</b>		0.033	0.014	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
<b>Pyrene</b>	<b>0.069</b>		0.033	0.012	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113				02/24/12 07:23	03/05/12 19:28	1
2-Fluorophenol	74		30 - 110				02/24/12 07:23	03/05/12 19:28	1
Nitrobenzene-d5	70		22 - 110				02/24/12 07:23	03/05/12 19:28	1
Phenol-d5	77		26 - 112				02/24/12 07:23	03/05/12 19:28	1
Terphenyl-d14	105		33 - 129				02/24/12 07:23	03/05/12 19:28	1
2,4,6-Tribromophenol	90		30 - 137				02/24/12 07:23	03/05/12 19:28	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:55	1
<b>Barium</b>	<b>0.56</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 22:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 22:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 22:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:55	1
<b>Copper</b>	<b>0.013 J</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 22:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:55	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 22:55	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:55	1
<b>Zinc</b>	<b>0.031 J</b>		0.10	0.020	mg/L		03/05/12 08:00	03/05/12 22:55	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 22:55	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 22:55	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 22:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 22:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.9		4.9	0.65	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Arsenic</b>	<b>2.6</b>		2.5	0.54	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Barium</b>	<b>9.3</b>		2.5	0.29	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Beryllium</b>	<b>0.32 J</b>		0.98	0.072	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Cadmium	<0.49		0.49	0.12	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Chromium</b>	<b>5.7</b>		2.5	0.41	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Copper</b>	<b>7.8</b>		2.5	0.67	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Lead</b>	<b>2.9</b>		1.2	0.42	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Nickel</b>	<b>5.1</b>		2.5	0.54	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Selenium	<2.5		2.5	0.71	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Silver	<1.2		1.2	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Thallium	<2.5		2.5	0.63	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Zinc</b>	<b>18</b>		4.9	1.7	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Sodium</b>	<b>380</b>		250	45	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Potassium</b>	<b>400 B</b>		120	14	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
<b>Calcium</b>	<b>110000 B</b>		49	8.7	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
 SDG: 500-44416-1

**Client Sample ID: 915B-12-B02-2**

**Lab Sample ID: 500-44416-17**

Date Collected: 02/22/12 15:30

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5900		49	21	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Vanadium	10		1.2	0.19	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Magnesium	57000	B	25	4.8	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Boron	4.8	J	12	2.3	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Manganese	190		2.5	0.35	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5
Cobalt	2.3		1.2	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:37	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 10:00	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015	0.0046	mg/Kg	☼	02/24/12 08:35	02/24/12 12:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.71		0.200	0.200	SU			02/29/12 12:16	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-1**

**Lab Sample ID: 500-44416-19**

Date Collected: 02/22/12 15:55

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Styrene	<0.0046	*	0.0046	0.00058	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	*	02/22/12 15:55	02/28/12 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		67 - 120	02/22/12 15:55	02/28/12 05:24	1
Dibromofluoromethane	89		69 - 120	02/22/12 15:55	02/28/12 05:24	1
1,2-Dichloroethane-d4 (Surr)	89		69 - 120	02/22/12 15:55	02/28/12 05:24	1
Toluene-d8 (Surr)	81		69 - 122	02/22/12 15:55	02/28/12 05:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.011	mg/Kg	*	02/24/12 07:23	03/06/12 18:42	1
Acenaphthylene	<0.032		0.032	0.0081	mg/Kg	*	02/24/12 07:23	03/06/12 18:42	1
<b>Anthracene</b>	<b>0.015</b>	<b>J</b>	0.035	0.0083	mg/Kg	*	02/24/12 07:23	03/06/12 18:42	1
<b>Benzo[a]anthracene</b>	<b>0.10</b>		0.035	0.0074	mg/Kg	*	02/24/12 07:23	03/06/12 18:42	1
<b>Benzo[a]pyrene</b>	<b>0.17</b>		0.035	0.0064	mg/Kg	*	02/24/12 07:23	03/06/12 18:42	1
<b>Benzo[b]fluoranthene</b>	<b>0.26</b>		0.035	0.0068	mg/Kg	*	02/24/12 07:23	03/06/12 18:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-1**

**Lab Sample ID: 500-44416-19**

Date Collected: 02/22/12 15:55

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.11</b>		0.035	0.012	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
<b>Benzo[k]fluoranthene</b>	<b>0.12</b>		0.035	0.0084	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
<b>Chrysene</b>	<b>0.15</b>		0.035	0.0079	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
<b>Dibenz(a,h)anthracene</b>	<b>0.041</b>		0.035	0.0098	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
<b>Fluoranthene</b>	<b>0.23</b>		0.035	0.014	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.10</b>		0.035	0.012	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-1**

**Lab Sample ID: 500-44416-19**

Date Collected: 02/22/12 15:55

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
<b>Phenanthrene</b>	<b>0.070</b>		0.035	0.015	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
Phenol	<0.18		0.18	0.056	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
<b>Pyrene</b>	<b>0.22</b>		0.035	0.013	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	02/24/12 07:23	03/06/12 18:42	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	80		27 - 113				02/24/12 07:23	03/06/12 18:42	1
2-Fluorophenol	71		30 - 110				02/24/12 07:23	03/06/12 18:42	1
Nitrobenzene-d5	72		22 - 110				02/24/12 07:23	03/06/12 18:42	1
Phenol-d5	82		26 - 112				02/24/12 07:23	03/06/12 18:42	1
Terphenyl-d14	103		33 - 129				02/24/12 07:23	03/06/12 18:42	1
2,4,6-Tribromophenol	139	X	30 - 137				02/24/12 07:23	03/06/12 18:42	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 23:08	1
<b>Barium</b>	<b>0.70</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 23:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 23:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 23:08	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:08	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:08	1
<b>Lead</b>	<b>0.0068</b>	<b>J</b>	0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 23:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:08	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 23:08	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 23:08	1
<b>Zinc</b>	<b>0.045</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 23:08	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 23:08	1
<b>Boron</b>	<b>3.5</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 23:08	1
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:08	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 23:08	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Arsenic</b>	<b>5.9</b>		0.51	0.11	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Barium</b>	<b>15</b>		0.51	0.060	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Beryllium</b>	<b>0.28</b>		0.20	0.015	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Cadmium</b>	<b>0.18</b>		0.10	0.025	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Chromium</b>	<b>5.8</b>		0.51	0.085	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Copper</b>	<b>10</b>		0.51	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Lead</b>	<b>6.2</b>		0.25	0.087	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Nickel</b>	<b>6.2</b>		0.51	0.11	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Zinc</b>	<b>18</b>		1.0	0.35	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Sodium</b>	<b>300</b>		51	9.3	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Potassium</b>	<b>620</b>	<b>B</b>	25	2.9	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
<b>Calcium</b>	<b>99000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-1**

**Lab Sample ID: 500-44416-19**

Date Collected: 02/22/12 15:55

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 93.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7600		10	4.4	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Vanadium	12		0.25	0.038	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Magnesium	54000	B E	5.1	0.98	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Boron	6.7		2.5	0.47	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Manganese	250		0.51	0.071	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1
Cobalt	2.5		0.25	0.027	mg/Kg	☼	02/28/12 09:30	03/02/12 03:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 10:07	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	J	0.017	0.0051	mg/Kg	☼	02/24/12 08:35	02/24/12 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			02/29/12 12:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-2**

**Lab Sample ID: 500-44416-20**

Date Collected: 02/22/12 16:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0048</b>		0.0044	0.0021	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Benzene	<0.0044		0.0044	0.00047	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Bromoform	<0.0044	*	0.0044	0.00071	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Bromomethane	<0.0044		0.0044	0.00094	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
2-Butanone (MEK)	<0.0044		0.0044	0.00095	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Carbon disulfide	<0.0044		0.0044	0.00062	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Carbon tetrachloride	<0.0044		0.0044	0.00096	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Chlorobenzene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Chloroethane	<0.0044		0.0044	0.00092	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00064	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Dibromochloromethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,1-Dichloroethene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,2-Dichloropropane	<0.0044		0.0044	0.00099	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
2-Hexanone	<0.0044		0.0044	0.00062	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00074	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Styrene	<0.0044	*	0.0044	0.00055	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Tetrachloroethene	<0.0044		0.0044	0.00083	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Toluene	<0.0044		0.0044	0.00085	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
<b>Trichloroethene</b>	<b>0.013</b>		0.0044	0.00071	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Vinyl chloride	<0.0044		0.0044	0.00061	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1
Xylenes, Total	<0.0088		0.0088	0.00061	mg/Kg	☼	02/22/12 16:00	02/28/12 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/22/12 16:00	02/28/12 05:48	1
Dibromofluoromethane	94		69 - 120	02/22/12 16:00	02/28/12 05:48	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 120	02/22/12 16:00	02/28/12 05:48	1
Toluene-d8 (Surr)	95		69 - 122	02/22/12 16:00	02/28/12 05:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-2**

**Lab Sample ID: 500-44416-20**

**Date Collected: 02/22/12 16:00**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 97.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Chrysene	<0.033		0.033	0.0076	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Hexachlorocyclopentadiene	<0.67		0.67	0.16	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-2**

**Lab Sample ID: 500-44416-20**

**Date Collected: 02/22/12 16:00**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 97.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/24/12 07:23	03/05/12 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113	02/24/12 07:23	03/05/12 17:56	1
2-Fluorophenol	89		30 - 110	02/24/12 07:23	03/05/12 17:56	1
Nitrobenzene-d5	82		22 - 110	02/24/12 07:23	03/05/12 17:56	1
Phenol-d5	89		26 - 112	02/24/12 07:23	03/05/12 17:56	1
Terphenyl-d14	111		33 - 129	02/24/12 07:23	03/05/12 17:56	1
2,4,6-Tribromophenol	98		30 - 137	02/24/12 07:23	03/05/12 17:56	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 23:14	1
<b>Barium</b>	<b>0.72</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 23:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 23:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 23:14	1
<b>Chromium</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:14	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:14	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 23:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:14	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 23:14	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 23:14	1
<b>Zinc</b>	<b>0.043</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 08:00	03/05/12 23:14	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 23:14	1
<b>Boron</b>	<b>3.2</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 23:14	1
<b>Manganese</b>	<b>0.57</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:14	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 23:14	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Arsenic</b>	<b>2.3</b>		0.50	0.11	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Barium</b>	<b>10</b>		0.50	0.060	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Beryllium</b>	<b>0.33</b>		0.20	0.015	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Cadmium</b>	<b>0.16</b>		0.10	0.025	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Chromium</b>	<b>6.3</b>		0.50	0.084	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Copper</b>	<b>16</b>		0.50	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Lead</b>	<b>2.1</b>		0.25	0.086	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Nickel</b>	<b>7.1</b>		0.50	0.11	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Zinc</b>	<b>15</b>		1.0	0.34	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Sodium</b>	<b>380</b>		50	9.2	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Potassium</b>	<b>470</b>	<b>B</b>	25	2.8	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
<b>Calcium</b>	<b>70000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-12-B03-2**

**Lab Sample ID: 500-44416-20**

Date Collected: 02/22/12 16:00

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 97.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7200		10	4.3	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Vanadium	9.8		0.25	0.038	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Magnesium	38000	B	5.0	0.97	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Boron	4.3		2.5	0.47	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Manganese	200		0.50	0.071	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1
Cobalt	3.2		0.25	0.026	mg/Kg	☼	02/28/12 09:30	03/02/12 03:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 10:09	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0047	J	0.015	0.0045	mg/Kg	☼	02/24/12 08:35	02/24/12 12:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			02/29/12 12:27	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
X	Surrogate is outside control limits
*	LCS or 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-44416</u> Sample Temp: <u>(3.1) (3.6)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-7-B02	2/22	8:30	S	✓	✓					✓	✓	✓	✓		0-3.5'	
2	915B-7-B04	2/22	8:50	S	✓	✓					✓	✓	✓	✓		0-6.5'	
3	915B-8-B01	2/22	9:20	S	✓	✓				✓	✓	✓	✓	✓		0-3.5'	
4	915B-8-B02	2/22	10:20	S	✓	✓				✓	✓	✓	✓	✓		0-3.5'	
5	915B-8-B03	2/22	10:30	S	✓	✓				✓	✓	✓	✓	✓		0-3.5'	
6	915B-8-B04	2/22	10:45	S	✓	✓				✓	✓	✓	✓	✓		0-3.5'	
7	915B-9-B01	2/22	11:00	S	✓	✓					✓	✓	✓	✓		0-3.5'	
8	915B-10-B01	2/22	11:30	S	✓	✓			✓	✓	✓	✓	✓	✓		0-3.5'	
9	915B-10-B01-DUP	2/22	11:45	S	✓	✓			✓	✓	✓	✓	✓	✓		0-3.5'	
10	915B-10-B02	2/22	1:15	S	✓	✓			✓	✓	✓	✓	✓	✓		0-3.5'	
11	915B-10-B03	2/22	1:30	S	✓	✓			✓	✓	✓	✓	✓	✓		0-3.5'	
12	915B-10-B04	2/22	1:45	S	✓	✓			✓	✓	✓	✓	✓	✓		0-3.5'	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 07:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Blank]</u>	Received by: <u>[Blank]</u>	Date/Time: <u>[Blank]</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamerica.com
Project Name: <u>PRE 14</u>		Project No.: <u>IDOT2011-032</u>	
COC No.: <u>2</u> of <u>2</u>		Lab Job No.: <u>500-49916</u>	
Sample Temp: _____		TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-10-B05	2/22	2:00	S			✓	✓			✓	✓	✓	✓		0-3.5'
14	915B-12-B01-1	2/22	2:45	S	✓						✓	✓	✓	✓		0-4'
15	915B-12-B01-2	2/22	3:00	S	✓						✓	✓	✓	✓		4-6.5'
16	915B-12-B02-1	2/22	3:15	S	✓						✓	✓	✓	✓		0-4'
17	915B-12-B02-2	2/22	3:30	S	✓						✓	✓	✓	✓		4-6.5'
18	915B-16-B02	2/22	3:45	S	✓						✓	✓	✓	✓		0-6.5'
19	915B-12-B03-1	2/22	3:55	S	✓						✓	✓	✓	✓		0-4'
20	915B-12-B03-2	2/22	4:00	S	✓						✓	✓	✓	✓		4-6.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-22-12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 07:00</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

3600 block of Lily Pond Road

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27596 Longitude: -88.38645

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27596 Longitude: -88.38645

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)]:

LOCATION 915B-13-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-13. SEE FIGURE 10 AND TABLE 5m OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44440-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

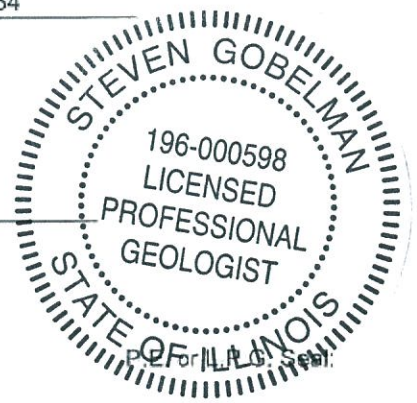
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 \_\_\_\_\_  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/8/14  
 \_\_\_\_\_  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-13  
Pasture**

<b>Sample ID</b>	915B-13-B01										
<b>Sample Depth (ft)</b>	0-6.5										
<b>Sample Date</b>	2/23/2012										
<b>PID</b>	0										
<b>Sample pH</b>	8.02										
<b>Matrix</b>	Soil										
<b>1 Most Stringent MAC</b>		<b>2 Outside a Populated Area</b>		<b>3 Populated non-Metropolitan Statistical Area</b>		<b>4 Within Chicago Corporate Limits</b>		<b>5 Metropolitan Statistical Area</b>		<b>6 Class I Soil TCLP/SPLP Comparisons</b>	
MAC		MAC		MAC		MAC		MAC		Only	
<b>No Contaminants of Concern Noted.</b>											

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-13-B01**

**Lab Sample ID: 500-44440-7**

Date Collected: 02/23/12 10:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Bromoform	<0.0050		0.0050	0.00082	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Chloroethane	<0.0050	*	0.0050	0.0011	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Chloroform	<0.0050		0.0050	0.00093	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Chloromethane	<0.0050		0.0050	0.00083	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00086	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Tetrachloroethene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Toluene	<0.0050		0.0050	0.00098	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/23/12 10:00	02/29/12 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/23/12 10:00	02/29/12 02:52	1
Dibromofluoromethane	87		69 - 120	02/23/12 10:00	02/29/12 02:52	1
1,2-Dichloroethane-d4 (Surr)	86		69 - 120	02/23/12 10:00	02/29/12 02:52	1
Toluene-d8 (Surr)	91		69 - 122	02/23/12 10:00	02/29/12 02:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Acenaphthylene	<0.036		0.036	0.0093	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-13-B01**

**Lab Sample ID: 500-44440-7**

**Date Collected: 02/23/12 10:00**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-13-B01**

**Lab Sample ID: 500-44440-7**

**Date Collected: 02/23/12 10:00**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		27 - 113	02/27/12 18:07	03/02/12 17:45	1
2-Fluorophenol	58		30 - 110	02/27/12 18:07	03/02/12 17:45	1
Nitrobenzene-d5	69		22 - 110	02/27/12 18:07	03/02/12 17:45	1
Phenol-d5	65		26 - 112	02/27/12 18:07	03/02/12 17:45	1
Terphenyl-d14	80		33 - 129	02/27/12 18:07	03/02/12 17:45	1
2,4,6-Tribromophenol	87		30 - 137	02/27/12 18:07	03/02/12 17:45	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:39	1
<b>Barium</b>	<b>0.77</b>		0.50	0.010	mg/L		03/05/12 16:20	03/06/12 11:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 11:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 11:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:39	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 11:39	1
<b>Nickel</b>	<b>0.012 J</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:39	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:39	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:39	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 11:39	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 11:39	1
<b>Boron</b>	<b>0.50</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 11:39	1
<b>Manganese</b>	<b>0.69</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Arsenic</b>	<b>7.2</b>		0.63	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Barium</b>	<b>100</b>		0.63	0.074	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Beryllium</b>	<b>0.78</b>		0.25	0.018	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Cadmium</b>	<b>0.11 J</b>		0.13	0.031	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Chromium</b>	<b>16</b>		0.63	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Copper</b>	<b>14</b>		0.63	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Lead</b>	<b>11</b>		0.31	0.11	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Nickel</b>	<b>14</b>		0.63	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Selenium</b>	<b>0.38 J</b>		0.63	0.18	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
Silver	<0.31		0.31	0.038	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Thallium</b>	<b>0.23 J</b>		0.63	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Zinc</b>	<b>42</b>		1.3	0.43	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Sodium</b>	<b>770</b>		63	11	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Potassium</b>	<b>920</b>		31	3.5	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
<b>Calcium</b>	<b>8500 B</b>		13	2.2	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
 SDG: 500-44440-1

**Client Sample ID: 915B-13-B01**

**Lab Sample ID: 500-44440-7**

Date Collected: 02/23/12 10:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 79.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000		13	5.4	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
Vanadium	29		0.31	0.047	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
Magnesium	6500		6.3	1.2	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
Boron	1.9	J	3.1	0.58	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
Manganese	440		0.63	0.088	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1
Cobalt	7.8		0.31	0.033	mg/Kg	☼	02/29/12 16:45	03/03/12 05:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:45	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.019	0.0058	mg/Kg	☼	02/28/12 13:45	02/29/12 10:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			03/01/12 17:34	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 16 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No: <u>1</u> of <u>3</u> Lab Job No.: <u>500-44440</u> Sample Temp: <u>(28)(32)(35)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-12-B04-1	2/23	8:20	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-4'
2	915B-12-B04-2	2/23	8:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	4-6.5'
3	915B-16-B01	2/23	8:45	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
4	915B-15-B01	2/23	9:10	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
5	915B-14-B01	2/23	9:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
6	915B-14-B01DUP	2/23	9:40	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
7	915B-13-B01	2/23	10:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
8	915B-16-B04	2/23	10:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
9	915B-16-B06	2/23	10:40	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
10	915B-16-B09	2/23	11:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
11	915B-16-B07	2/23	10:50	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
12	915B-16-B10	2/23	11:10	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/23/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 11:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/23/12 18:12</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/24/12 07:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/23/12 18:12</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/24/12 07:00</u>





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-16-BD01P	2/23	11:20	S	✓						✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓						✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓				✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓				✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓				✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓				✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓				✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓				✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓				✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓				✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:26	S	✓				✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓				✓		✓	✓	✓	✓		5-9.0'
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1600										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

3602 and 3516 Lily Pond Road

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27651 Longitude: -88.38656

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27651 Longitude: -88.38656

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):

LOCATION 915B-14-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-14. SEE FIGURE 10 AND TABLE 5n OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44440-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

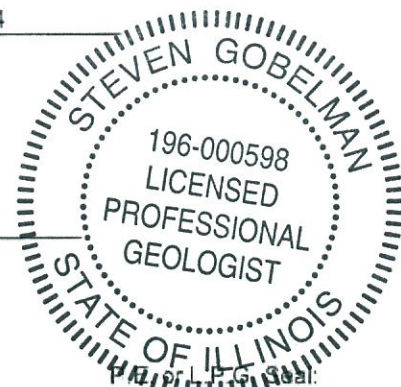
Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/8/14

Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-14**  
Residence

<b>Sample ID</b>	915B-14-B01	915B-14-B01 DUP										
<b>Sample Depth (ft)</b>	0-6.5	0-6.5										
<b>Sample Date</b>	2/23/2012	2/23/2012										
<b>PID</b>	0	0										
<b>Sample pH</b>	7.83	7.27										
<b>Matrix</b>	Soil	Soil										
<b>Semivolatile Organic Compounds (mg/kg)</b>												
Benzo(a)pyrene	0.15	1.2	ND	0.09	0.09	0.98	1.3	2.1	NA			

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01**

**Lab Sample ID: 500-44440-5**

Date Collected: 02/23/12 09:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Bromoform	<0.0049		0.0049	0.00080	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1
Xylenes, Total	<0.0098		0.0098	0.00069	mg/Kg	☼	02/23/12 09:30	02/29/12 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/23/12 09:30	02/29/12 02:02	1
Dibromofluoromethane	85		69 - 120	02/23/12 09:30	02/29/12 02:02	1
1,2-Dichloroethane-d4 (Surr)	84		69 - 120	02/23/12 09:30	02/29/12 02:02	1
Toluene-d8 (Surr)	88		69 - 122	02/23/12 09:30	02/29/12 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.014	J	0.038	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Anthracene	0.035	J	0.038	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Benzo[a]anthracene	0.14		0.038	0.0081	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Benzo[a]pyrene	0.15		0.038	0.0070	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Benzo[b]fluoranthene	0.20		0.038	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01**

**Lab Sample ID: 500-44440-5**

Date Collected: 02/23/12 09:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.11</b>		0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Benzo[k]fluoranthene</b>	<b>0.088</b>		0.038	0.0092	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Chrysene</b>	<b>0.17</b>		0.038	0.0087	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Dibenz(a,h)anthracene</b>	<b>0.031</b>	<b>J</b>	0.038	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Fluoranthene</b>	<b>0.42</b>		0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Fluorene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0088	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.096</b>		0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01**

**Lab Sample ID: 500-44440-5**

Date Collected: 02/23/12 09:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Phenanthrene</b>	<b>0.24</b>		0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
<b>Pyrene</b>	<b>0.30</b>		0.038	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		27 - 113	02/27/12 18:07	03/02/12 17:03	1
2-Fluorophenol	73		30 - 110	02/27/12 18:07	03/02/12 17:03	1
Nitrobenzene-d5	78		22 - 110	02/27/12 18:07	03/02/12 17:03	1
Phenol-d5	76		26 - 112	02/27/12 18:07	03/02/12 17:03	1
Terphenyl-d14	86		33 - 129	02/27/12 18:07	03/02/12 17:03	1
2,4,6-Tribromophenol	93		30 - 137	02/27/12 18:07	03/02/12 17:03	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:12	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 11:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 11:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 11:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:12	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 11:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:12	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:12	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:12	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 11:12	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 11:12	1
<b>Boron</b>	<b>0.50</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 11:12	1
<b>Manganese</b>	<b>0.60</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:12	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Arsenic</b>	<b>8.3</b>		0.56	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Barium</b>	<b>63</b>		0.56	0.067	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Beryllium</b>	<b>0.68</b>		0.22	0.016	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.028	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Chromium</b>	<b>15</b>		0.56	0.094	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Copper</b>	<b>17</b>		0.56	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Lead</b>	<b>9.4</b>		0.28	0.096	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Nickel</b>	<b>17</b>		0.56	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Selenium</b>	<b>0.24</b>	<b>J</b>	0.56	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.56	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Zinc</b>	<b>37</b>		1.1	0.38	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Sodium</b>	<b>100</b>		56	10	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Potassium</b>	<b>730</b>		28	3.2	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
<b>Calcium</b>	<b>7000</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01**

**Lab Sample ID: 500-44440-5**

Date Collected: 02/23/12 09:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21000		11	4.9	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
Vanadium	32		0.28	0.043	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
Magnesium	5500		5.6	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
Boron	1.8	J	2.8	0.52	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
Manganese	460		0.56	0.079	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1
Cobalt	5.8		0.28	0.029	mg/Kg	☼	02/29/12 16:45	03/03/12 05:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:42	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.018	0.0055	mg/Kg	☼	02/28/12 13:45	02/29/12 10:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			03/01/12 17:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01 DUP**

**Lab Sample ID: 500-44440-6**

Date Collected: 02/23/12 09:40

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0025	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Benzene	<0.0051		0.0051	0.00055	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Bromodichloromethane	<0.0051		0.0051	0.00077	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Bromoform	<0.0051		0.0051	0.00082	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Bromomethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
2-Butanone (MEK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Carbon disulfide	<0.0051		0.0051	0.00072	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Chlorobenzene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Chloroethane	<0.0051	*	0.0051	0.0011	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Chloroform	<0.0051		0.0051	0.00093	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Chloromethane	<0.0051		0.0051	0.00083	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00074	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00058	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Dibromochloromethane	<0.0051		0.0051	0.00070	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,2-Dichloroethane	<0.0051		0.0051	0.00052	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,1-Dichloroethene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,2-Dichloropropane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00058	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Ethylbenzene	<0.0051		0.0051	0.00076	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
2-Hexanone	<0.0051		0.0051	0.00072	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.00086	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00076	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Styrene	<0.0051		0.0051	0.00064	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Tetrachloroethene	<0.0051		0.0051	0.00096	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Toluene	<0.0051		0.0051	0.00098	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00097	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00068	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Trichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Vinyl chloride	<0.0051		0.0051	0.00071	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/23/12 09:40	02/29/12 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		67 - 120	02/23/12 09:40	02/29/12 02:27	1
Dibromofluoromethane	86		69 - 120	02/23/12 09:40	02/29/12 02:27	1
1,2-Dichloroethane-d4 (Surr)	87		69 - 120	02/23/12 09:40	02/29/12 02:27	1
Toluene-d8 (Surr)	92		69 - 122	02/23/12 09:40	02/29/12 02:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01 DUP**

**Lab Sample ID: 500-44440-6**

**Date Collected: 02/23/12 09:40**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01 DUP**

**Lab Sample ID: 500-44440-6**

Date Collected: 02/23/12 09:40

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		27 - 113	02/27/12 18:07	03/02/12 17:24	1
2-Fluorophenol	81		30 - 110	02/27/12 18:07	03/02/12 17:24	1
Nitrobenzene-d5	85		22 - 110	02/27/12 18:07	03/02/12 17:24	1
Phenol-d5	85		26 - 112	02/27/12 18:07	03/02/12 17:24	1
Terphenyl-d14	95		33 - 129	02/27/12 18:07	03/02/12 17:24	1
2,4,6-Tribromophenol	110		30 - 137	02/27/12 18:07	03/02/12 17:24	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:33	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 11:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 11:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 11:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:33	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 11:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:33	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:33	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:33	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 11:33	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 11:33	1
<b>Boron</b>	<b>0.64</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 11:33	1
<b>Manganese</b>	<b>0.095</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:33	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:33	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Arsenic</b>	<b>8.1</b>		0.57	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Barium</b>	<b>79</b>		0.57	0.068	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Beryllium</b>	<b>0.77</b>		0.23	0.017	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Cadmium</b>	<b>0.040</b>	<b>J</b>	0.11	0.028	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Chromium</b>	<b>17</b>		0.57	0.096	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Copper</b>	<b>17</b>		0.57	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Lead</b>	<b>12</b>		0.29	0.099	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Nickel</b>	<b>16</b>		0.57	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Selenium</b>	<b>0.40</b>	<b>J</b>	0.57	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Zinc</b>	<b>40</b>		1.1	0.39	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Sodium</b>	<b>76</b>		57	11	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Potassium</b>	<b>630</b>		29	3.3	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
<b>Calcium</b>	<b>2700</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-14-B01 DUP**

**Lab Sample ID: 500-44440-6**

Date Collected: 02/23/12 09:40

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 80.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000		11	5.0	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
Vanadium	27		0.29	0.044	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
Magnesium	2800		5.7	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
Boron	1.2	J	2.9	0.54	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
Manganese	400		0.57	0.081	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1
Cobalt	7.0		0.29	0.030	mg/Kg	☼	02/29/12 16:45	03/03/12 05:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:43	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.018	0.0056	mg/Kg	☼	02/28/12 13:45	02/29/12 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.27		0.200	0.200	SU			03/01/12 17:32	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 16 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> 1 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp:</b> (28)(32)(35)
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**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-12-B04-1	2/23	8:20	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-4'
2	915B-12-B04-2	2/23	8:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	4-6.5'
3	915B-16-B01	2/23	8:45	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
4	915B-15-B01	2/23	9:10	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
5	915B-14-B01	2/23	9:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
6	915B-14-B01DUP	2/23	9:40	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
7	915B-13-B01	2/23	10:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
8	915B-16-B04	2/23	10:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
9	915B-16-B06	2/23	10:40	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
10	915B-16-B09	2/23	11:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
11	915B-16-B07	2/23	10:50	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
12	915B-16-B10	2/23	11:10	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <i>[Signature]</i>	Date/Time: 2/23/12 16:00	Received by: <i>[Signature]</i>	Date/Time: 2/23/12 11:00
Relinquished by: <i>[Signature]</i>	Date/Time: 2/23/12 15:12	Received by: <i>[Signature]</i>	Date/Time: 2/24/12 07:00
Relinquished by: <i>[Signature]</i>	Date/Time: _____	Received by: _____	Date/Time: _____



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-16-BD01P	2/23	11:20	S	✓	✓					✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓	✓			✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓	✓			✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓	✓			✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:20	S	✓	✓			✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓	✓			✓		✓	✓	✓	✓		5-9.0'
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1600										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										









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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

9600 - 10000 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27507 Longitude: -88.38752

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27507 Longitude: -88.38752

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):

LOCATIONS 915B-16-B01 TO -B03, -B05 AND -B07 THROUGH -B11 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-16. SEE FIGURES 8, 9, AND 10 AND TABLE 5p OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44440-1, 500-44416-1 AND 500-44374-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBERS: 13111392 AND 13091083

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

I, Steven Gobelman, P.E., L.P.G. (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.

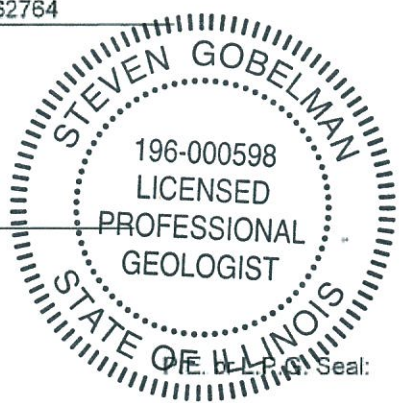
*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

Company Name: IDOT Bureau of Design and Environment  
 Street Address: 2300 South Dirksen Parkway  
 City: Springfield State: IL Zip Code: 62764  
 Phone: 217.785.4246

Steven Gobelman  
 Printed Name:

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

7/2/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISCS Site 915B-16  
Agricultural Fields**

Sample ID	915B-16-B01	915B-16-B02	915B-16-B03	915B-16-B05	915B-16-B07	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6.5	0-6.5	0-6.5	0-3.5	0-3.5						
Sample Date	2/23/2012	2/22/2012	2/20/2012	2/20/2012	2/23/2012						
PID	0	0	0	0	0						
Sample pH	6.77	7.55	7.31	7.38	7.26						
Matrix	Soil	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

Sample ID	915B-16-B08	915B-16-B09	915B-16-B10	915B-16-B10 DUP	915B-16-B11	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-3.5	0-3.5	0-3.5	0-3.5	0-3.5						
Sample Date	2/20/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012						
PID	0	0	0	0	0						
Sample pH	7.13	7.01	7.6	7.62	7.41						
Matrix	Soil	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B01**

**Lab Sample ID: 500-44440-3**

Date Collected: 02/23/12 08:45

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0024	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Bromoform	<0.0048		0.0048	0.00078	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Chloroethane	<0.0048	*	0.0048	0.0010	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Chloroform	<0.0048		0.0048	0.00089	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00082	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Styrene	<0.0048		0.0048	0.00061	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/23/12 08:45	02/29/12 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/23/12 08:45	02/29/12 01:12	1
Dibromofluoromethane	87		69 - 120	02/23/12 08:45	02/29/12 01:12	1
1,2-Dichloroethane-d4 (Surr)	80		69 - 120	02/23/12 08:45	02/29/12 01:12	1
Toluene-d8 (Surr)	89		69 - 122	02/23/12 08:45	02/29/12 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Acenaphthylene	<0.037		0.037	0.0095	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B01**

**Lab Sample ID: 500-44440-3**

**Date Collected: 02/23/12 08:45**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B01**

**Lab Sample ID: 500-44440-3**

**Date Collected: 02/23/12 08:45**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		27 - 113	02/27/12 18:07	03/02/12 16:21	1
2-Fluorophenol	75		30 - 110	02/27/12 18:07	03/02/12 16:21	1
Nitrobenzene-d5	81		22 - 110	02/27/12 18:07	03/02/12 16:21	1
Phenol-d5	79		26 - 112	02/27/12 18:07	03/02/12 16:21	1
Terphenyl-d14	84		33 - 129	02/27/12 18:07	03/02/12 16:21	1
2,4,6-Tribromophenol	91		30 - 137	02/27/12 18:07	03/02/12 16:21	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:00	1
<b>Barium</b>	<b>0.51</b>		0.50	0.010	mg/L		03/05/12 16:20	03/06/12 11:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 11:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 11:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:00	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 11:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:00	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:00	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:00	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 11:00	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 11:00	1
Boron	<0.10		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 11:00	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:00	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Arsenic</b>	<b>7.8</b>		0.60	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Barium</b>	<b>83</b>		0.60	0.072	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Beryllium</b>	<b>0.70</b>		0.24	0.018	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Cadmium</b>	<b>0.076 J</b>		0.12	0.030	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Chromium</b>	<b>16</b>		0.60	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Copper</b>	<b>18</b>		0.60	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Lead</b>	<b>12</b>		0.30	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Nickel</b>	<b>18</b>		0.60	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Selenium</b>	<b>0.39 J</b>		0.60	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Thallium</b>	<b>0.34 J</b>		0.60	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Zinc</b>	<b>41</b>		1.2	0.41	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Sodium</b>	<b>360</b>		60	11	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Potassium</b>	<b>810</b>		30	3.4	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1
<b>Calcium</b>	<b>5700 B</b>		12	2.1	mg/Kg	☼	02/29/12 16:45	03/03/12 04:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
 SDG: 500-44440-1

**Client Sample ID: 915B-16-B01**

**Lab Sample ID: 500-44440-3**

Date Collected: 02/23/12 08:45

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 80.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000		12	5.2	mg/Kg	⊛	02/29/12 16:45	03/03/12 04:57	1
Vanadium	25		0.30	0.046	mg/Kg	⊛	02/29/12 16:45	03/03/12 04:57	1
Magnesium	5200		6.0	1.2	mg/Kg	⊛	02/29/12 16:45	03/03/12 04:57	1
Boron	1.5	J	3.0	0.56	mg/Kg	⊛	02/29/12 16:45	03/03/12 04:57	1
Manganese	560		0.60	0.085	mg/Kg	⊛	02/29/12 16:45	03/03/12 04:57	1
Cobalt	8.9		0.30	0.032	mg/Kg	⊛	02/29/12 16:45	03/03/12 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.019	0.0059	mg/Kg	⊛	02/28/12 13:45	02/29/12 10:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.77		0.200	0.200	SU			03/01/12 17:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B09**

**Lab Sample ID: 500-44440-10**

Date Collected: 02/23/12 11:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Bromoform	<0.0044		0.0044	0.00072	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Bromomethane	<0.0044		0.0044	0.00095	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
2-Butanone (MEK)	<0.0044		0.0044	0.00095	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Carbon disulfide	<0.0044		0.0044	0.00063	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Carbon tetrachloride	<0.0044		0.0044	0.00096	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Chlorobenzene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Chloroethane	<0.0044	*	0.0044	0.00093	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00065	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,2-Dichloropropane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
2-Hexanone	<0.0044		0.0044	0.00063	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Styrene	<0.0044		0.0044	0.00056	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Tetrachloroethene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Toluene	<0.0044		0.0044	0.00086	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1
Xylenes, Total	<0.0088		0.0088	0.00062	mg/Kg	☼	02/23/12 11:00	02/29/12 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/23/12 11:00	02/29/12 04:07	1
Dibromofluoromethane	85		69 - 120	02/23/12 11:00	02/29/12 04:07	1
1,2-Dichloroethane-d4 (Surr)	75		69 - 120	02/23/12 11:00	02/29/12 04:07	1
Toluene-d8 (Surr)	91		69 - 122	02/23/12 11:00	02/29/12 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B09**

**Lab Sample ID: 500-44440-10**

**Date Collected: 02/23/12 11:00**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B09**

**Lab Sample ID: 500-44440-10**

Date Collected: 02/23/12 11:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		27 - 113	02/27/12 18:07	03/02/12 18:48	1
2-Fluorophenol	64		30 - 110	02/27/12 18:07	03/02/12 18:48	1
Nitrobenzene-d5	74		22 - 110	02/27/12 18:07	03/02/12 18:48	1
Phenol-d5	70		26 - 112	02/27/12 18:07	03/02/12 18:48	1
Terphenyl-d14	88		33 - 129	02/27/12 18:07	03/02/12 18:48	1
2,4,6-Tribromophenol	93		30 - 137	02/27/12 18:07	03/02/12 18:48	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:58	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 11:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 11:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 11:58	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:58	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 11:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:58	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 11:58	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:58	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 11:58	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 11:58	1
<b>Boron</b>	<b>0.52</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 11:58	1
<b>Manganese</b>	<b>0.026</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 11:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 11:58	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Arsenic</b>	<b>5.9</b>		0.55	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Barium</b>	<b>81</b>		0.55	0.065	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Beryllium</b>	<b>0.77</b>		0.22	0.016	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Cadmium</b>	<b>0.036</b>	<b>J</b>	0.11	0.027	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Chromium</b>	<b>16</b>		0.55	0.092	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Copper</b>	<b>10</b>		0.55	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Lead</b>	<b>9.4</b>		0.27	0.094	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Nickel</b>	<b>13</b>		0.55	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Selenium</b>	<b>0.39</b>	<b>J</b>	0.55	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Thallium</b>	<b>0.19</b>	<b>J</b>	0.55	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Zinc</b>	<b>38</b>		1.1	0.38	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Sodium</b>	<b>68</b>		55	10	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Potassium</b>	<b>760</b>		27	3.1	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
<b>Calcium</b>	<b>1600</b>	<b>B</b>	11	1.9	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B09**

**Lab Sample ID: 500-44440-10**

Date Collected: 02/23/12 11:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000		11	4.8	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
Vanadium	30		0.27	0.042	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
Magnesium	2600		5.5	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
Boron	1.5	J	2.7	0.51	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
Manganese	440		0.55	0.077	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1
Cobalt	7.5		0.27	0.029	mg/Kg	☼	02/29/12 16:45	03/03/12 05:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:54	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0059	mg/Kg	☼	02/28/12 13:45	02/29/12 10:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.01		0.200	0.200	SU			03/01/12 17:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B07**

**Lab Sample ID: 500-44440-11**

Date Collected: 02/23/12 10:50

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0023	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Benzene	<0.0048		0.0048	0.00051	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Bromodichloromethane	<0.0048		0.0048	0.00072	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Bromoform	<0.0048	*	0.0048	0.00077	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Chlorobenzene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Chloromethane	<0.0048		0.0048	0.00078	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00054	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,1-Dichloroethene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00054	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Ethylbenzene	<0.0048		0.0048	0.00071	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00081	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00071	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Toluene	<0.0048		0.0048	0.00092	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00091	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Trichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1
Xylenes, Total	<0.0095		0.0095	0.00067	mg/Kg	☼	02/23/12 10:50	02/29/12 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/23/12 10:50	02/29/12 11:29	1
Dibromofluoromethane	90		69 - 120	02/23/12 10:50	02/29/12 11:29	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 120	02/23/12 10:50	02/29/12 11:29	1
Toluene-d8 (Surr)	87		69 - 122	02/23/12 10:50	02/29/12 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
<b>Benzo[b]fluoranthene</b>	<b>0.010</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B07**

**Lab Sample ID: 500-44440-11**

**Date Collected: 02/23/12 10:50**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 78.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
<b>Chrysene</b>	<b>0.0090</b>	<b>J</b>	0.040	0.0090	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B07**

**Lab Sample ID: 500-44440-11**

Date Collected: 02/23/12 10:50

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		27 - 113	02/27/12 18:07	03/02/12 19:08	1
2-Fluorophenol	63		30 - 110	02/27/12 18:07	03/02/12 19:08	1
Nitrobenzene-d5	67		22 - 110	02/27/12 18:07	03/02/12 19:08	1
Phenol-d5	71		26 - 112	02/27/12 18:07	03/02/12 19:08	1
Terphenyl-d14	87		33 - 129	02/27/12 18:07	03/02/12 19:08	1
2,4,6-Tribromophenol	98		30 - 137	02/27/12 18:07	03/02/12 19:08	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:04	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 12:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 12:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 12:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:04	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 12:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:04	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:04	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:04	1
<b>Zinc</b>	<b>0.034</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 12:04	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 12:04	1
<b>Boron</b>	<b>0.52</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 12:04	1
<b>Manganese</b>	<b>0.57</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:04	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:04	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Arsenic</b>	<b>2.2</b>		0.60	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Barium</b>	<b>70</b>		0.60	0.071	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Beryllium</b>	<b>0.53</b>		0.24	0.018	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Cadmium</b>	<b>0.36</b>		0.12	0.030	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Chromium</b>	<b>11</b>		0.60	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Copper</b>	<b>13</b>		0.60	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Lead</b>	<b>15</b>		0.30	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Nickel</b>	<b>13</b>		0.60	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.60	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
Thallium	<0.60		0.60	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Zinc</b>	<b>45</b>		1.2	0.41	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Sodium</b>	<b>68</b>		60	11	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Potassium</b>	<b>1100</b>		30	3.4	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
<b>Calcium</b>	<b>10000</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B07**

**Lab Sample ID: 500-44440-11**

Date Collected: 02/23/12 10:50

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 78.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8700		12	5.2	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
Vanadium	19		0.30	0.045	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
Magnesium	6000		6.0	1.2	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
Boron	2.5	J	3.0	0.56	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
Manganese	230		0.60	0.084	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1
Cobalt	4.4		0.30	0.031	mg/Kg	☼	02/29/12 16:45	03/03/12 06:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:56	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0060	mg/Kg	☼	02/28/12 13:45	02/29/12 10:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.26		0.200	0.200	SU			03/01/12 17:46	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10**

**Lab Sample ID: 500-44440-12**

Date Collected: 02/23/12 11:10

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0024	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Bromoform	<0.0048		0.0048	0.00078	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Chloroethane	<0.0048	*	0.0048	0.0010	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00082	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/23/12 11:10	02/29/12 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		67 - 120	02/23/12 11:10	02/29/12 04:57	1
Dibromofluoromethane	80		69 - 120	02/23/12 11:10	02/29/12 04:57	1
1,2-Dichloroethane-d4 (Surr)	71		69 - 120	02/23/12 11:10	02/29/12 04:57	1
Toluene-d8 (Surr)	87		69 - 122	02/23/12 11:10	02/29/12 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Acenaphthylene	<0.034		0.034	0.0086	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10**

**Lab Sample ID: 500-44440-12**

**Date Collected: 02/23/12 11:10**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 84.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10**

**Lab Sample ID: 500-44440-12**

**Date Collected: 02/23/12 11:10**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 84.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		27 - 113	02/27/12 18:07	03/02/12 19:29	1
2-Fluorophenol	70		30 - 110	02/27/12 18:07	03/02/12 19:29	1
Nitrobenzene-d5	74		22 - 110	02/27/12 18:07	03/02/12 19:29	1
Phenol-d5	74		26 - 112	02/27/12 18:07	03/02/12 19:29	1
Terphenyl-d14	80		33 - 129	02/27/12 18:07	03/02/12 19:29	1
2,4,6-Tribromophenol	91		30 - 137	02/27/12 18:07	03/02/12 19:29	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:10	1
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 12:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 12:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 12:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:10	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 12:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:10	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:10	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:10	1
<b>Zinc</b>	<b>0.029</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 12:10	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 12:10	1
<b>Boron</b>	<b>0.55</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 12:10	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:10	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:10	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Arsenic</b>	<b>7.2</b>		0.58	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Barium</b>	<b>22</b>		0.58	0.069	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Beryllium</b>	<b>0.42</b>		0.23	0.017	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Cadmium</b>	<b>0.47</b>		0.12	0.029	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Chromium</b>	<b>7.2</b>		0.58	0.096	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Copper</b>	<b>20</b>		0.58	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Lead</b>	<b>6.1</b>		0.29	0.099	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Nickel</b>	<b>12</b>		0.58	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Selenium	<0.58	L	0.58	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Zinc</b>	<b>28</b>		1.2	0.40	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Sodium</b>	<b>240</b>		58	11	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Potassium</b>	<b>910</b>		29	3.3	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
<b>Calcium</b>	<b>97000</b>	<b>B E</b>	12	2.0	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10**

**Lab Sample ID: 500-44440-12**

Date Collected: 02/23/12 11:10

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 84.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000		12	5.0	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Vanadium	18		0.29	0.044	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Magnesium	58000	E	5.8	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Boron	7.8		2.9	0.54	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Manganese	510		0.58	0.081	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1
Cobalt	3.8		0.29	0.030	mg/Kg	☼	02/29/12 16:45	03/03/12 06:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:57	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0055	mg/Kg	☼	02/28/12 13:45	02/29/12 10:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.60		0.200	0.200	SU			03/01/12 17:49	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10 DUP**

**Lab Sample ID: 500-44440-13**

Date Collected: 02/23/12 11:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Bromodichloromethane	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Bromoform	<0.0046		0.0046	0.00074	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Bromomethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
2-Butanone (MEK)	<0.0046		0.0046	0.00098	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Chloroethane	<0.0046	*	0.0046	0.00096	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,2-Dichloroethane	<0.0046		0.0046	0.00046	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Ethylbenzene	<0.0046		0.0046	0.00068	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00077	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00068	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Styrene	<0.0046		0.0046	0.00057	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Toluene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00087	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1
Xylenes, Total	<0.0091		0.0091	0.00064	mg/Kg	☼	02/23/12 11:20	02/29/12 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		67 - 120	02/23/12 11:20	02/29/12 05:22	1
Dibromofluoromethane	86		69 - 120	02/23/12 11:20	02/29/12 05:22	1
1,2-Dichloroethane-d4 (Surr)	78		69 - 120	02/23/12 11:20	02/29/12 05:22	1
Toluene-d8 (Surr)	88		69 - 122	02/23/12 11:20	02/29/12 05:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Acenaphthylene	<0.032		0.032	0.0081	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10 DUP**

**Lab Sample ID: 500-44440-13**

**Date Collected: 02/23/12 11:20**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 90.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10 DUP**

**Lab Sample ID: 500-44440-13**

Date Collected: 02/23/12 11:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Phenol	<0.18		0.18	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/27/12 18:07	03/02/12 19:51	1
2-Fluorophenol	77		30 - 110	02/27/12 18:07	03/02/12 19:51	1
Nitrobenzene-d5	82		22 - 110	02/27/12 18:07	03/02/12 19:51	1
Phenol-d5	84		26 - 112	02/27/12 18:07	03/02/12 19:51	1
Terphenyl-d14	85		33 - 129	02/27/12 18:07	03/02/12 19:51	1
2,4,6-Tribromophenol	97		30 - 137	02/27/12 18:07	03/02/12 19:51	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:17	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 12:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 12:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 12:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:17	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 12:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:17	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:17	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:17	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 12:17	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 12:17	1
<b>Boron</b>	<b>0.54</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 12:17	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:17	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:17	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Arsenic</b>	<b>7.3</b>		0.54	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Barium</b>	<b>48</b>		0.54	0.064	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Beryllium</b>	<b>0.49</b>		0.21	0.016	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.027	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Chromium</b>	<b>11</b>		0.54	0.090	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Copper</b>	<b>24</b>		0.54	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Lead</b>	<b>6.7</b>		0.27	0.092	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Nickel</b>	<b>14</b>		0.54	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Thallium</b>	<b>0.17</b>	<b>J</b>	0.54	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Zinc</b>	<b>32</b>		1.1	0.37	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Sodium</b>	<b>160</b>		54	9.8	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Potassium</b>	<b>870</b>		27	3.0	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
<b>Calcium</b>	<b>37000</b>	<b>B</b>	11	1.9	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B10 DUP**

**Lab Sample ID: 500-44440-13**

Date Collected: 02/23/12 11:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 90.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		11	4.7	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
Vanadium	24		0.27	0.041	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
Magnesium	24000		5.4	1.0	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
Boron	3.2		2.7	0.50	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
Manganese	610	E	0.54	0.076	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1
Cobalt	5.1		0.27	0.028	mg/Kg	☼	02/29/12 16:45	03/03/12 06:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:59	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0053	mg/Kg	☼	02/28/12 13:45	02/29/12 10:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.62		0.200	0.200	SU			03/01/12 17:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B11**

**Lab Sample ID: 500-44440-14**

Date Collected: 02/23/12 11:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Benzene	<0.0049		0.0049	0.00052	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Bromoform	<0.0049		0.0049	0.00079	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
2-Butanone (MEK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Carbon disulfide	<0.0049		0.0049	0.00069	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Chloroform	<0.0049		0.0049	0.00089	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,2-Dichloroethane	<0.0049		0.0049	0.00049	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00082	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/23/12 11:30	02/29/12 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		67 - 120	02/23/12 11:30	02/29/12 05:47	1
Dibromofluoromethane	87		69 - 120	02/23/12 11:30	02/29/12 05:47	1
1,2-Dichloroethane-d4 (Surr)	87		69 - 120	02/23/12 11:30	02/29/12 05:47	1
Toluene-d8 (Surr)	89		69 - 122	02/23/12 11:30	02/29/12 05:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Acenaphthylene	<0.037		0.037	0.0095	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B11**

**Lab Sample ID: 500-44440-14**

**Date Collected: 02/23/12 11:30**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Chrysene	<0.041		0.041	0.0094	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B11**

**Lab Sample ID: 500-44440-14**

Date Collected: 02/23/12 11:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Phenol	<0.21		0.21	0.066	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		27 - 113	02/27/12 18:07	03/02/12 20:11	1
2-Fluorophenol	80		30 - 110	02/27/12 18:07	03/02/12 20:11	1
Nitrobenzene-d5	83		22 - 110	02/27/12 18:07	03/02/12 20:11	1
Phenol-d5	86		26 - 112	02/27/12 18:07	03/02/12 20:11	1
Terphenyl-d14	90		33 - 129	02/27/12 18:07	03/02/12 20:11	1
2,4,6-Tribromophenol	101		30 - 137	02/27/12 18:07	03/02/12 20:11	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:23	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 12:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 12:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 12:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:23	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:23	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 12:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:23	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:23	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:23	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 12:23	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 12:23	1
<b>Boron</b>	<b>0.54</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 12:23	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:23	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:23	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Arsenic</b>	<b>1.1</b>		0.61	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Barium</b>	<b>74</b>		0.61	0.072	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Beryllium</b>	<b>0.58</b>		0.24	0.018	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Cadmium</b>	<b>0.039</b>	<b>J</b>	0.12	0.030	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Chromium</b>	<b>16</b>		0.61	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Copper</b>	<b>8.1</b>		0.61	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Lead</b>	<b>9.3</b>		0.30	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Nickel</b>	<b>9.9</b>		0.61	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Selenium	<0.61		0.61	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Thallium	<0.61		0.61	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Zinc</b>	<b>37</b>		1.2	0.42	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Sodium</b>	<b>330</b>		61	11	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Potassium</b>	<b>730</b>		30	3.4	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
<b>Calcium</b>	<b>2600</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-16-B11**

**Lab Sample ID: 500-44440-14**

Date Collected: 02/23/12 11:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 79.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7900		12	5.2	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Vanadium	17		0.30	0.046	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Magnesium	2100		6.1	1.2	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Boron	1.3	J	3.0	0.56	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Manganese	54		0.61	0.085	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1
Cobalt	2.4		0.30	0.032	mg/Kg	☼	02/29/12 16:45	03/03/12 06:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 10:01	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0058	mg/Kg	☼	02/28/12 13:45	02/29/12 10:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.41		0.200	0.200	SU			03/01/12 17:54	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 16 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No: <u>1</u> of <u>3</u> Lab Job No.: <u>500-44440</u> Sample Temp: <u>(28)(32)(35)</u>
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**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-12-B04-1	2/23	8:20	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-4'
2	915B-12-B04-2	2/23	8:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	4-6.5'
3	915B-16-B01	2/23	8:45	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
4	915B-15-B01	2/23	9:10	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
5	915B-14-B01	2/23	9:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
6	915B-14-B01DUP	2/23	9:40	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
7	915B-13-B01	2/23	10:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
8	915B-16-B04	2/23	10:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
9	915B-16-B06	2/23	10:40	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
10	915B-16-B09	2/23	11:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
11	915B-16-B07	2/23	10:50	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
12	915B-16-B10	2/23	11:10	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <i>[Signature]</i>	Date/Time: <u>2/23/12 16:00</u>	Received by: <i>[Signature]</i>	Date/Time: <u>2/23/12 11:00</u>
Relinquished by: <i>[Signature]</i>	Date/Time: <u>2/23/12 15:12</u>	Received by: <i>[Signature]</i>	Date/Time: <u>2/24/12 07:00</u>
Relinquished by: <i>[Signature]</i>	Date/Time: _____	Received by: _____	Date/Time: _____



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-16-BD01P	2/23	11:20	S	✓	✓					✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓	✓			✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓	✓			✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓	✓			✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:20	S	✓	✓			✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓	✓			✓		✓	✓	✓	✓		5-9.0'
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1600										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RT214 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>GOC No.:</b> 3 of 3 <b>Lab Job No.:</b> SDO-444AD <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.																
<b>ANALYSES</b>																
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
25	915B-22-B01-1	2/23	3:45	S	✓	✓			✓		✓	✓	✓	✓		0-51
26	915B-22-B01-2	2/23	4:00	S	✓	✓			✓		✓	✓	✓	✓		5-9.0
Relinquished by: <i>[Signature]</i>					Date/Time: 2/23/16	Received by: <i>[Signature]</i>					Date/Time: 2/23/16					
Relinquished by: <i>[Signature]</i>					Date/Time: 2/23/15	Received by: <i>[Signature]</i>					Date/Time: 2/23/15					
Relinquished by:					Date/Time:	Received by:					Date/Time:					



# 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: 500-44416-1

TestAmerica Sample Delivery Group: 500-44416-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:20:03 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

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

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



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

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-16-B02**

**Lab Sample ID: 500-44416-18**

**Date Collected: 02/22/12 15:45**

**Matrix: Solid**

**Date Received: 02/23/12 07:00**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Styrene	<0.0047	*	0.0047	0.00059	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	*	02/22/12 15:45	02/28/12 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		67 - 120	02/22/12 15:45	02/28/12 04:59	1
Dibromofluoromethane	88		69 - 120	02/22/12 15:45	02/28/12 04:59	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 120	02/22/12 15:45	02/28/12 04:59	1
Toluene-d8 (Surr)	94		69 - 122	02/22/12 15:45	02/28/12 04:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	02/24/12 07:23	03/02/12 22:19	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	*	02/24/12 07:23	03/02/12 22:19	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	*	02/24/12 07:23	03/02/12 22:19	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	*	02/24/12 07:23	03/02/12 22:19	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	*	02/24/12 07:23	03/02/12 22:19	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	*	02/24/12 07:23	03/02/12 22:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-16-B02**

**Lab Sample ID: 500-44416-18**

Date Collected: 02/22/12 15:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

**Client Sample ID: 915B-16-B02**

**Lab Sample ID: 500-44416-18**

Date Collected: 02/22/12 15:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/24/12 07:23	03/02/12 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113	02/24/12 07:23	03/02/12 22:19	1
2-Fluorophenol	91		30 - 110	02/24/12 07:23	03/02/12 22:19	1
Nitrobenzene-d5	84		22 - 110	02/24/12 07:23	03/02/12 22:19	1
Phenol-d5	86		26 - 112	02/24/12 07:23	03/02/12 22:19	1
Terphenyl-d14	101		33 - 129	02/24/12 07:23	03/02/12 22:19	1
2,4,6-Tribromophenol	101		30 - 137	02/24/12 07:23	03/02/12 22:19	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Barium</b>	<b>0.75</b>		0.50	0.010	mg/L		03/05/12 08:00	03/05/12 23:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Cadmium</b>	<b>0.0028</b>	<b>J</b>	0.0050	0.0020	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:02	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 08:00	03/05/12 23:02	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		03/05/12 08:00	03/05/12 23:02	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Boron</b>	<b>2.4</b>		0.10	0.050	mg/L		03/05/12 08:00	03/05/12 23:02	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		03/05/12 08:00	03/05/12 23:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 08:00	03/05/12 23:02	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Arsenic</b>	<b>7.3</b>		0.61	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Barium</b>	<b>100</b>		0.61	0.073	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Beryllium</b>	<b>0.84</b>		0.24	0.018	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Cadmium	<0.12		0.12	0.030	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Chromium</b>	<b>17</b>		0.61	0.10	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Copper</b>	<b>15</b>		0.61	0.17	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Lead</b>	<b>13</b>		0.30	0.10	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Nickel</b>	<b>16</b>		0.61	0.13	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Selenium	<0.61		0.61	0.17	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Thallium</b>	<b>0.27</b>	<b>J</b>	0.61	0.16	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Zinc</b>	<b>41</b>		1.2	0.42	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Sodium</b>	<b>120</b>		61	11	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Potassium</b>	<b>820</b>	<b>B</b>	30	3.5	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
<b>Calcium</b>	<b>2100</b>	<b>B</b>	12	2.2	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
 SDG: 500-44416-1

**Client Sample ID: 915B-16-B02**

**Lab Sample ID: 500-44416-18**

Date Collected: 02/22/12 15:45

Matrix: Solid

Date Received: 02/23/12 07:00

Percent Solids: 80.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19000		12	5.3	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Vanadium	33		0.30	0.046	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Magnesium	2900	B	6.1	1.2	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Boron	1.9	J	3.0	0.57	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Manganese	510		0.61	0.086	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1
Cobalt	9.4		0.30	0.032	mg/Kg	☼	02/28/12 09:30	03/02/12 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 08:00	03/06/12 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 08:00	03/06/12 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 13:30	03/06/12 10:01	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.021	0.0063	mg/Kg	☼	02/24/12 08:35	02/24/12 12:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.55		0.200	0.200	SU			02/29/12 12:20	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44416-1  
SDG: 500-44416-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
X	Surrogate is outside control limits
*	LCS or 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-44416</u> Sample Temp: <u>(3.1) (3.6)</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-7-B02	2/22	8:30	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
2	915B-7-B04	2/22	8:50	S	✓	✓					✓	✓	✓	✓	✓	✓	0-6.5'
3	915B-8-B01	2/22	9:20	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
4	915B-8-B02	2/22	10:20	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
5	915B-8-B03	2/22	10:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
6	915B-8-B04	2/22	10:45	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
7	915B-9-B01	2/22	11:00	S	✓	✓					✓	✓	✓	✓	✓	✓	0-3.5'
8	915B-10-B01	2/22	11:30	S	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	0-3.5'
9	915B-10-B01-DUP	2/22	11:45	S	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	0-3.5'
10	915B-10-B02	2/22	1:15	S	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	0-3.5'
11	915B-10-B03	2/22	1:30	S	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	0-3.5'
12	915B-10-B04	2/22	1:45	S	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 07:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Blank]</u>	Received by: <u>[Blank]</u>	Date/Time: <u>[Blank]</u>





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Name: <u>PTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other
COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-49916</u> Sample Temp: _____		Matrix Key: W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
13	915B-10-B05	2/22	2:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-3.5'
14	915B-12-B01-1	2/22	2:45	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
15	915B-12-B01-2	2/22	3:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4-6.5'
16	915B-12-B02-1	2/22	3:15	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
17	915B-12-B02-2	2/22	3:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4-6.5'
18	915B-16-B02	2/22	3:45	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6.5'
19	915B-12-B03-1	2/22	3:55	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
20	915B-12-B03-2	2/22	4:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4-6.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/22/12 16:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-22-12 17:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/12 0700</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

# 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: 500-44374-1  
TestAmerica Sample Delivery Group: 500-44374-1  
Client Project/Site: IDOT - US 14 - WO 032  
Revision: 1

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
9/20/2012 11:23:03 AM

Richard Wright  
Project Manager II  
[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.*

- 1
- 2
- 3
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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B03**

**Lab Sample ID: 500-44374-19**

Date Collected: 02/20/12 14:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0024	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Bromoform	<0.0048	*	0.0048	0.00078	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00082	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Styrene	<0.0048		0.0048	0.00061	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/20/12 14:00	02/23/12 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		67 - 120	02/20/12 14:00	02/23/12 20:26	1
Dibromofluoromethane	97		69 - 120	02/20/12 14:00	02/23/12 20:26	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 120	02/20/12 14:00	02/23/12 20:26	1
Toluene-d8 (Surr)	108		69 - 122	02/20/12 14:00	02/23/12 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Acenaphthylene	<0.036		0.036	0.0093	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B03**

**Lab Sample ID: 500-44374-19**

**Date Collected: 02/20/12 14:00**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 78.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B03**

**Lab Sample ID: 500-44374-19**

**Date Collected: 02/20/12 14:00**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 78.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Phenanthrene	<0.040	*	0.040	0.017	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		27 - 113	02/22/12 07:07	02/28/12 02:05	1
2-Fluorophenol	60		30 - 110	02/22/12 07:07	02/28/12 02:05	1
Nitrobenzene-d5	55		22 - 110	02/22/12 07:07	02/28/12 02:05	1
Phenol-d5	64		26 - 112	02/22/12 07:07	02/28/12 02:05	1
Terphenyl-d14	74		33 - 129	02/22/12 07:07	02/28/12 02:05	1
2,4,6-Tribromophenol	63		30 - 137	02/22/12 07:07	02/28/12 02:05	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:48	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 21:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 21:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 21:48	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:48	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 21:48	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:48	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:48	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:48	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 21:48	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 21:48	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 21:48	1
<b>Manganese</b>	<b>0.070</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:48	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Arsenic</b>	<b>1.3</b>		0.62	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Barium</b>	<b>110</b>		0.62	0.074	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Beryllium</b>	<b>0.61</b>		0.25	0.018	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Cadmium</b>	<b>0.045</b>	<b>J</b>	0.12	0.031	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Chromium</b>	<b>16</b>		0.62	0.10	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Copper</b>	<b>11</b>		0.62	0.17	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Lead</b>	<b>10</b>		0.31	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Nickel</b>	<b>8.6</b>		0.62	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Selenium	<0.62		0.62	0.18	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Thallium	<0.62		0.62	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Zinc</b>	<b>39</b>		1.2	0.43	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Sodium</b>	<b>770</b>		62	11	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Potassium</b>	<b>700</b>		31	3.5	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
<b>Calcium</b>	<b>2500</b>	<b>B</b>	12	2.2	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B03**

**Lab Sample ID: 500-44374-19**

Date Collected: 02/20/12 14:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 78.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8400		12	5.4	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Vanadium	18		0.31	0.047	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Magnesium	2100	B	6.2	1.2	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Boron	1.1	J	3.1	0.58	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Manganese	38		0.62	0.088	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1
Cobalt	3.0		0.31	0.033	mg/Kg	☼	02/22/12 14:30	02/24/12 06:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.021	0.0064	mg/Kg	☼	02/22/12 07:55	02/22/12 11:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.31		0.200	0.200	SU			02/24/12 15:44	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B05**

**Lab Sample ID: 500-44374-20**

Date Collected: 02/20/12 14:20

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Bromodichloromethane	<0.0050		0.0050	0.00077	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Bromoform	<0.0050	*	0.0050	0.00082	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Carbon disulfide	<0.0050		0.0050	0.00072	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Chlorobenzene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Chloroform	<0.0050		0.0050	0.00093	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Chloromethane	<0.0050		0.0050	0.00083	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00074	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Dibromochloromethane	<0.0050		0.0050	0.00070	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Ethylbenzene	<0.0050		0.0050	0.00076	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
2-Hexanone	<0.0050		0.0050	0.00072	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00086	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00076	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Styrene	<0.0050		0.0050	0.00064	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Tetrachloroethene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Toluene	<0.0050		0.0050	0.00098	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00072	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Vinyl chloride	<0.0050		0.0050	0.00071	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/20/12 14:20	02/23/12 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		67 - 120	02/20/12 14:20	02/23/12 20:52	1
Dibromofluoromethane	97		69 - 120	02/20/12 14:20	02/23/12 20:52	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 120	02/20/12 14:20	02/23/12 20:52	1
Toluene-d8 (Surr)	111		69 - 122	02/20/12 14:20	02/23/12 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B05**

**Lab Sample ID: 500-44374-20**

Date Collected: 02/20/12 14:20

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.015</b>	<b>J</b>	0.040	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.19	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B05**

**Lab Sample ID: 500-44374-20**

Date Collected: 02/20/12 14:20

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Phenanthrene	<0.040	*	0.040	0.017	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/22/12 07:07	02/28/12 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		27 - 113	02/22/12 07:07	02/28/12 02:22	1
2-Fluorophenol	57		30 - 110	02/22/12 07:07	02/28/12 02:22	1
Nitrobenzene-d5	55		22 - 110	02/22/12 07:07	02/28/12 02:22	1
Phenol-d5	60		26 - 112	02/22/12 07:07	02/28/12 02:22	1
Terphenyl-d14	72		33 - 129	02/22/12 07:07	02/28/12 02:22	1
2,4,6-Tribromophenol	62		30 - 137	02/22/12 07:07	02/28/12 02:22	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:55	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 21:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 21:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 21:55	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:55	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 21:55	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:55	1
<b>Selenium</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		02/27/12 16:00	02/28/12 21:55	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:55	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 21:55	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 21:55	1
<b>Boron</b>	<b>2.0</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 21:55	1
<b>Manganese</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 21:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 21:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.17	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Arsenic</b>	<b>8.9</b>		0.62	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Barium</b>	<b>100</b>		0.62	0.074	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Beryllium</b>	<b>1.0</b>		0.25	0.018	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Cadmium</b>	<b>0.093</b>	<b>J</b>	0.12	0.031	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Chromium</b>	<b>21</b>		0.62	0.10	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Copper</b>	<b>19</b>		0.62	0.17	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Lead</b>	<b>12</b>		0.31	0.11	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Nickel</b>	<b>18</b>		0.62	0.14	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Selenium</b>	<b>0.37</b>	<b>J</b>	0.62	0.18	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Thallium</b>	<b>0.26</b>	<b>J</b>	0.62	0.16	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Zinc</b>	<b>44</b>		1.2	0.43	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Sodium</b>	<b>180</b>		62	11	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Potassium</b>	<b>900</b>		31	3.5	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
<b>Calcium</b>	<b>2600</b>	<b>B</b>	12	2.2	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
 SDG: 500-44374-1

**Client Sample ID: 915B-16-B05**

**Lab Sample ID: 500-44374-20**

Date Collected: 02/20/12 14:20

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 79.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	23000		12	5.4	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
Vanadium	37		0.31	0.047	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
Magnesium	3600	B	6.2	1.2	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
Boron	1.7	J	3.1	0.58	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
Manganese	380		0.62	0.088	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1
Cobalt	7.4		0.31	0.033	mg/Kg	☼	02/22/12 14:30	02/24/12 06:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:24	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.076		0.020	0.0062	mg/Kg	☼	02/22/12 07:55	02/22/12 11:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.38		0.200	0.200	SU			02/24/12 15:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B08**

**Lab Sample ID: 500-44374-21**

Date Collected: 02/20/12 14:40

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0022	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Benzene	<0.0045		0.0045	0.00049	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Bromodichloromethane	<0.0045		0.0045	0.00068	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Bromoform	<0.0045		0.0045	0.00073	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Bromomethane	<0.0045		0.0045	0.00096	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
2-Butanone (MEK)	<0.0045		0.0045	0.00097	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Carbon disulfide	<0.0045		0.0045	0.00064	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Carbon tetrachloride	<0.0045		0.0045	0.00098	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Chlorobenzene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Chloroethane	<0.0045		0.0045	0.00095	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Chloroform	<0.0045		0.0045	0.00083	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Chloromethane	<0.0045		0.0045	0.00074	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00066	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00051	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Dibromochloromethane	<0.0045		0.0045	0.00062	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,2-Dichloroethane	<0.0045		0.0045	0.00046	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,1-Dichloroethene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,2-Dichloropropane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00051	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Ethylbenzene	<0.0045		0.0045	0.00068	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
2-Hexanone	<0.0045		0.0045	0.00064	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Methylene Chloride	<0.0045		0.0045	0.0013	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00077	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00068	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Styrene	<0.0045		0.0045	0.00057	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Tetrachloroethene	<0.0045		0.0045	0.00086	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Toluene	<0.0045		0.0045	0.00087	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00060	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Trichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Vinyl chloride	<0.0045		0.0045	0.00063	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1
Xylenes, Total	<0.0090		0.0090	0.00063	mg/Kg	☼	02/20/12 14:40	02/24/12 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		67 - 120	02/20/12 14:40	02/24/12 11:24	1
Dibromofluoromethane	94		69 - 120	02/20/12 14:40	02/24/12 11:24	1
1,2-Dichloroethane-d4 (Surr)	92		69 - 120	02/20/12 14:40	02/24/12 11:24	1
Toluene-d8 (Surr)	109		69 - 122	02/20/12 14:40	02/24/12 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Benzo[a]pyrene	<0.038	*	0.038	0.0070	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B08**

**Lab Sample ID: 500-44374-21**

**Date Collected: 02/20/12 14:40**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B08**

**Lab Sample ID: 500-44374-21**

**Date Collected: 02/20/12 14:40**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/21/12 17:39	02/22/12 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		27 - 113	02/21/12 17:39	02/22/12 19:01	1
2-Fluorophenol	75		30 - 110	02/21/12 17:39	02/22/12 19:01	1
Nitrobenzene-d5	64		22 - 110	02/21/12 17:39	02/22/12 19:01	1
Phenol-d5	51		26 - 112	02/21/12 17:39	02/22/12 19:01	1
Terphenyl-d14	74		33 - 129	02/21/12 17:39	02/22/12 19:01	1
2,4,6-Tribromophenol	79		30 - 137	02/21/12 17:39	02/22/12 19:01	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 22:01	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 22:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 22:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 22:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 22:01	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 22:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 22:01	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 22:01	1
<b>Selenium</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		02/27/12 16:00	02/28/12 22:01	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 22:01	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 22:01	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 22:01	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 22:01	1
<b>Manganese</b>	<b>0.098</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 22:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 22:01	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Arsenic</b>	<b>8.2</b>		0.56	0.12	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Barium</b>	<b>65</b>		0.56	0.067	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Beryllium</b>	<b>0.73</b>		0.23	0.017	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.028	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Chromium</b>	<b>17</b>		0.56	0.094	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Copper</b>	<b>19</b>		0.56	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Lead</b>	<b>11</b>		0.28	0.097	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Nickel</b>	<b>15</b>		0.56	0.12	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Thallium</b>	<b>0.21</b>	<b>J</b>	0.56	0.14	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Zinc</b>	<b>40</b>		1.1	0.39	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Sodium</b>	<b>160</b>		56	10	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Potassium</b>	<b>780</b>		28	3.2	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
<b>Calcium</b>	<b>10000</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-16-B08**

**Lab Sample ID: 500-44374-21**

Date Collected: 02/20/12 14:40

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 85.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	22000	B	11	4.9	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
Vanadium	36		0.28	0.043	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
Magnesium	7700		5.6	1.1	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
Boron	1.8	J	2.8	0.53	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
Manganese	130		0.56	0.079	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1
Cobalt	5.4		0.28	0.030	mg/Kg	☼	02/22/12 14:30	02/23/12 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/28/12 09:00	02/28/12 13:26	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064		0.017	0.0053	mg/Kg	☼	02/23/12 08:10	02/23/12 10:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.13		0.200	0.200	SU			02/24/12 15:59	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	LCS or LCSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-634-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamerica.com
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		Project Name: <u>Pte 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>1</u> of <u>3</u> Lab Job No.: <u>500-4A374</u> Sample Temp.: <u>(3.2)(3.7)(3.5)</u>

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-11-B01-1	2/20/12	8:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
2	915B-11-B01-2	2/20	8:50	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
3	915B-7-B08	2/20	9:45	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
4	915B-11-B02-1	2/20	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
5	915B-11-B02-2	2/20	10:30	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
6	915B-11-B04-1	2/20	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-4'
7	915B-11-B04-2	2/20	11:00	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
8	915B-11-B06-1	2/20	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
9	915B-11-B06-1Dup	2/20	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
10	915B-11-B06-2	2/20	11:45	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
11	915B-11-B08-1	2/20	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-4'
12	915B-11-B08-2	2/20	12:15	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 15:16</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 15:16</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>RTD 10</u> <b>Project No.:</b> <u>IDOT2011-032</u> <b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> <u>2</u> of <u>3</u> <b>Lab Job No.:</b> <u>500-44374</u> <b>Sample Temp:</b>
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**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
13	915B-11-809-1	2/20	12:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
14	915B-11-809-2	2/20	12:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
15	915B-11-805-1	2/20	1:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
16	915B-11-805-2	2/20	1:15	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
17	915B-11-807-1	2/20	1:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
18	915B-11-807-2	2/20	1:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
19	915B-16-803	2/20	2:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
20	915B-16-805	2/20	2:20	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
21	915B-16-808	2/20	2:40	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
22	915B-17-801	2/20	3:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
23	915B-18-801	2/20	3:10	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
24	915B-19-801	2/20	3:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'

<b>Relinquished by:</b> <i>[Signature]</i>	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 2/20/12 16:23
<b>Relinquished by:</b> <i>[Signature]</i>	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 2/21/12 0700
<b>Relinquished by:</b>	<b>Received by:</b>	<b>Date/Time:</b>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>Rte 19</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>3</u> of <u>3</u> Lab Job No.: <u>500-9437A</u> Sample Temp: _____													
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Matrix Key:</b> W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other														
		<b>ANALYSES</b>														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
25	915B-19-GO1	2/20	4:00	W	✓						✓		✓			14.0
26	TRIP BLANK	2/20	-	W												2vals T.B.
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2-20-12 16:20</u>		Date/Time: <u>2-20-12 16:23</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2-20-12 16:23</u>								
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2-20-12 18:14</u>		Date/Time: <u>2-20-12 18:14</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2-20-12 18:14</u>								
Relinquished by: <u>[Signature]</u>		Date/Time: _____		Date/Time: _____		Received by: _____		Date/Time: _____								





December 09, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13111392

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 11/27/2013 1:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13111392

**Client Project:** IDOT2011-032

**Report Date:** 09-Dec-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111392

Client Project: IDOT2011-032

Report Date: 09-Dec-13

Lab ID: 13111392-001

Client Sample ID: 915B-16-B09

Matrix: SOLID

Collection Date: 11/25/2013 12:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.016	0.05	J	<b>0.042</b>	mg/L	1	12/09/2013 13:36	94395
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005	X	<b>0.168</b>	mg/L	1	12/04/2013 13:17	94262



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111392

Client Project: IDOT2011-032

Report Date: 09-Dec-13

Lab ID: 13111392-002

Client Sample ID: 915B-16-B11

Matrix: SOLID

Collection Date: 11/25/2013 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		0.057	mg/L	1	12/04/2013 13:21	94262



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com
Project Name: <u>Rt. 14 McHenry Co.</u> Project No.: <u>IDOT 2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project Name: <u>Rt. 14 McHenry Co.</u> Project No.: <u>IDOT 2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	
COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>1311392</u> Sample Temp.: <u>14.00</u>		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>1311392</u> Sample Temp.: <u>14.00</u>	

**Special Instructions:**  
 See Table 2 for complete parameter lists and minimum reporting limits.  
 \* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.  
 \*\* If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments									
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids		Waste Characterization	SPLP Mn/** TCLP Mn							
1311392-001	9158-16-809	11/25/13	1210	S																			0-3.5'	
1311392-002	9158-16-811	11/25/13	1220	S																				0-3.5'
																								0-3.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/25/13 655</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-25-13-1555</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-27-13 1300</u>	Received by: <u>Sta M. Batten</u>	Date/Time: <u>11-27-13 13:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u></u>	Received by: <u></u>	Date/Time: <u></u>

Teklab, Inc.  
Courier Pick Up





September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091083

Dear Colleen Grey:

TEKLAB, INC received 3 samples on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13091083

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091083

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091083-001

Client Sample ID: 915B-16-B03

Matrix: SOLID

Collection Date: 09/20/2013 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15		< 0.15	mg/L	1	09/25/2013 13:07	92207



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091083

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091083-002

Client Sample ID: 915B-16-B05

Matrix: SOLID

Collection Date: 09/20/2013 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0269</b>	mg/L	1	09/30/2013 10:04	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.292</b>	mg/L	1	09/25/2013 13:13	92207



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091083

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091083-003

Client Sample ID: 915B-16-B08

Matrix: SOLID

Collection Date: 09/20/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0643</b>	mg/L	1	09/30/2013 10:08	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.153</b>	mg/L	1	09/25/2013 13:19	92207





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>		<b>Laboratory</b>		<b>Project Name:</b> Rt 14 Mc Henry Co		<b>COC No.:</b> 1 of 1												
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com		Project No.: I DOT 2011-032		Lab Job No.:												
<b>Special Instructions:</b>				TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Sample Temp: 23.0 No ICE												
See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter. * Sample dates & times per bottle labels SEP 9/23/13				SAMPLER: AET		<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other												
				<b>ANALYSES</b>		<b>Comments</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNA's	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization			
13091083-001	915B-16-B03	9/20/13	1:10	S											X SPLP Mn/** TCLP Mn			0-6.5'
-002	915B-16-B05	9/20/13	1:40	S											X			0-3.5'
	<del>915B-16-B06</del>			S											X			
	<del>915B-16-B07</del>			S											X			
	<del>915B-16-B08</del>			S											X			
-003	915B-16-B08	9/20/13	12:40	S											X			0-3.5'
Relinquished by:	Kevin A. upler (AET)	Date/Time	9/20/13	3:40	Received by:	Stephanie Hennessy	Date/Time	9/23/13	11:28									
Relinquished by:		Date/Time			Received by:		Date/Time											
Relinquished by:		Date/Time			Received by:		Date/Time											



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10000 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27580 Longitude: -88.39194

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.27580 Longitude: -88.39194Uncontaminated 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)]:

LOCATION 915B-17-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-17. SEE FIGURE 8 AND TABLE 5q OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44374-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13111394

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

I, Steven Gobelman, P.E., L.P.G. (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.

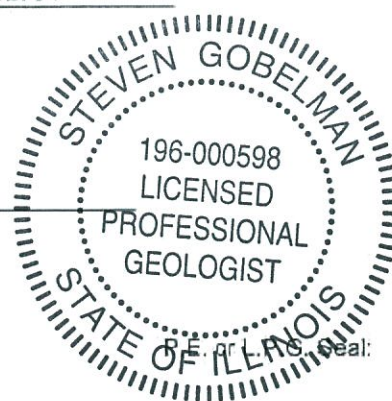
*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date: 7/8/14

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISGS Site 915B-17  
Vacant Building**

<b>Sample ID</b>	915B-17-B01								
<b>Sample Depth (ft)</b>	0-6								
<b>Sample Date</b>	2/20/2012								
<b>PID</b>	0								
<b>Sample pH</b>	7.41								
<b>Matrix</b>	Soil								
<b>No Contaminants of Concern Noted.</b>									
		<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only		

# 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: 500-44374-1

TestAmerica Sample Delivery Group: 500-44374-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/20/2012 11:23:03 AM

Richard Wright

Project Manager II

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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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-17-B01**

**Lab Sample ID: 500-44374-22**

Date Collected: 02/20/12 15:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Bromoform	<0.0046		0.0046	0.00074	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/20/12 15:00	02/24/12 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		67 - 120	02/20/12 15:00	02/24/12 11:50	1
Dibromofluoromethane	94		69 - 120	02/20/12 15:00	02/24/12 11:50	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 120	02/20/12 15:00	02/24/12 11:50	1
Toluene-d8 (Surr)	108		69 - 122	02/20/12 15:00	02/24/12 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Acenaphthylene	<0.036		0.036	0.0093	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Benzo[a]pyrene	<0.040	*	0.040	0.0073	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-17-B01**

**Lab Sample ID: 500-44374-22**

**Date Collected: 02/20/12 15:00**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-17-B01**

**Lab Sample ID: 500-44374-22**

**Date Collected: 02/20/12 15:00**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/21/12 17:39	02/22/12 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		27 - 113	02/21/12 17:39	02/22/12 19:25	1
2-Fluorophenol	87		30 - 110	02/21/12 17:39	02/22/12 19:25	1
Nitrobenzene-d5	70		22 - 110	02/21/12 17:39	02/22/12 19:25	1
Phenol-d5	77		26 - 112	02/21/12 17:39	02/22/12 19:25	1
Terphenyl-d14	85		33 - 129	02/21/12 17:39	02/22/12 19:25	1
2,4,6-Tribromophenol	76		30 - 137	02/21/12 17:39	02/22/12 19:25	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 10:16	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 10:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 10:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 10:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:16	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:16	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 10:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:16	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 10:16	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 10:16	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 10:16	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 10:16	1
<b>Boron</b>	<b>2.2</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 10:16	1
<b>Manganese</b>	<b>0.055</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:16	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 10:16	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Arsenic</b>	<b>8.7</b>		0.57	0.12	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Barium</b>	<b>96</b>		0.57	0.068	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Beryllium</b>	<b>0.78</b>		0.23	0.017	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Chromium</b>	<b>18</b>		0.57	0.095	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Copper</b>	<b>16</b>		0.57	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Lead</b>	<b>12</b>		0.29	0.098	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Nickel</b>	<b>15</b>		0.57	0.13	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Selenium</b>	<b>0.41</b>	<b>J</b>	0.57	0.16	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Thallium</b>	<b>0.30</b>	<b>J</b>	0.57	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Zinc</b>	<b>41</b>		1.1	0.39	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Sodium</b>	<b>71</b>		57	10	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Potassium</b>	<b>750</b>		29	3.2	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
<b>Calcium</b>	<b>3600</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-17-B01**

**Lab Sample ID: 500-44374-22**

Date Collected: 02/20/12 15:00

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 80.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21000	B	11	5.0	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
Vanadium	33		0.29	0.043	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
Magnesium	3600		5.7	1.1	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
Boron	1.4	J	2.9	0.53	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
Manganese	450		0.57	0.081	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1
Cobalt	9.4		0.29	0.030	mg/Kg	☼	02/22/12 14:30	02/23/12 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/29/12 08:55	02/29/12 13:35	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0057	mg/Kg	☼	02/23/12 08:10	02/23/12 10:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.41		0.200	0.200	SU			02/24/12 16:15	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	LCS or LCSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-634-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamerica.com
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		Project Name: <u>Pte 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>1</u> of <u>3</u> Lab Job No.: <u>500-4A374</u> Sample Temp.: <u>(3.2)(3.7)(3.5)</u>

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-11-B01-1	2/20/12	8:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
2	915B-11-B01-2	2/20	8:50	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
3	915B-7-B08	2/20	9:45	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
4	915B-11-B02-1	2/20	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
5	915B-11-B02-2	2/20	10:30	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
6	915B-11-B04-1	2/20	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-4'
7	915B-11-B04-2	2/20	11:00	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
8	915B-11-B06-1	2/20	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
9	915B-11-B06-1Dup	2/20	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
10	915B-11-B06-2	2/20	11:45	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
11	915B-11-B08-1	2/20	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-4'
12	915B-11-B08-2	2/20	12:15	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 15:16</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 15:16</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>RTD 10</u> <b>Project No.:</b> <u>IDOT2011-032</u> <b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> <u>2</u> of <u>3</u> <b>Lab Job No.:</b> <u>500-44374</u> <b>Sample Temp:</b>
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**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
13	915B-11-809-1	2/20	12:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
14	915B-11-809-2	2/20	12:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
15	915B-11-805-1	2/20	1:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
16	915B-11-805-2	2/20	1:15	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
17	915B-11-807-1	2/20	1:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
18	915B-11-807-2	2/20	1:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
19	915B-16-803	2/20	2:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
20	915B-16-805	2/20	2:20	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
21	915B-16-808	2/20	2:40	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
22	915B-17-801	2/20	3:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
23	915B-18-801	2/20	3:10	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
24	915B-19-801	2/20	3:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'

<b>Relinquished by:</b> <i>[Signature]</i>	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 2/20/12 16:23
<b>Relinquished by:</b> <i>[Signature]</i>	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 2/21/12 0700
<b>Relinquished by:</b>	<b>Received by:</b>	<b>Date/Time:</b>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>Rte 19</u> Project No.: <u>DOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>3</u> of <u>3</u> Lab Job No.: <u>500-9437A</u> Sample Temp: _____
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**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments			
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization		
25	915B-19-G01	2/20	4:00	W	✓							✓						14.0
26	TRIP BLANK	2/20	--	W														2.vals T.B.

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 16:20</u>	Date/Time: <u>2-20-12 16:23</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 18:14</u>	Date/Time: <u>2-20-12 18:14</u>
Relinquished by: <u>[Signature]</u>	Date/Time: _____	Date/Time: _____

<b>Matrix Key:</b>	W - Water
S - Soil	SL - Sludge
SE - Sediment	L - Leachate
DW - Drinking Water	OL - Oil
O - Other	



December 05, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13111394

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 11/27/2013 1:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)



**Client:** Andrews Engineering, Inc.

**Work Order:** 13111394

**Client Project:** IDOT2011-032

**Report Date:** 05-Dec-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111394

Client Project: IDOT2011-032

Report Date: 05-Dec-13

Lab ID: 13111394-001

Client Sample ID: 915B-17-B01

Matrix: SOLID

Collection Date: 11/25/2013 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0849</b>	mg/L	1	12/04/2013 13:38	94262





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10000 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27600 Longitude: +88.39291

(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

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

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

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

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27600 Longitude: -88.39291

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):

LOCATION 915B-18-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-18. SEE FIGURE 8 AND TABLE 5r OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44374-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

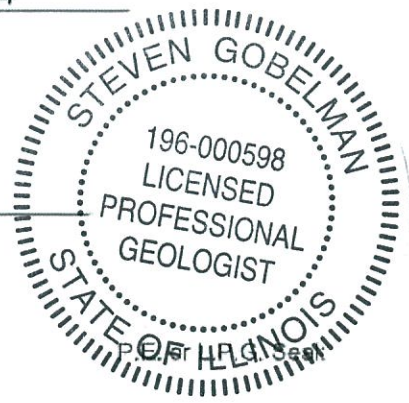
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 \_\_\_\_\_  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

  
 \_\_\_\_\_  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-18  
Agricultural Field**

<b>Sample ID</b>	915B-18-B01								
<b>Sample Depth (ft)</b>	0-6								
<b>Sample Date</b>	2/20/2012								
<b>PID</b>	0								
<b>Sample pH</b>	7.49								
<b>Matrix</b>	Soil								
<b>No Contaminants of Concern Noted.</b>									
		<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only		

# 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: 500-44374-1  
TestAmerica Sample Delivery Group: 500-44374-1  
Client Project/Site: IDOT - US 14 - WO 032  
Revision: 1

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
9/20/2012 11:23:03 AM

Richard Wright  
Project Manager II  
[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-18-B01**

**Lab Sample ID: 500-44374-23**

Date Collected: 02/20/12 15:10

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0026	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Benzene	<0.0054		0.0054	0.00058	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Bromodichloromethane	<0.0054		0.0054	0.00082	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Bromoform	<0.0054		0.0054	0.00087	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Bromomethane	<0.0054		0.0054	0.0012	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
2-Butanone (MEK)	<0.0054		0.0054	0.0012	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Carbon disulfide	<0.0054		0.0054	0.00076	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Carbon tetrachloride	<0.0054		0.0054	0.0012	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Chlorobenzene	<0.0054		0.0054	0.00085	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Chloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Chloroform	<0.0054		0.0054	0.00099	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Chloromethane	<0.0054		0.0054	0.00088	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00079	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00061	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Dibromochloromethane	<0.0054		0.0054	0.00074	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,2-Dichloroethane	<0.0054		0.0054	0.00055	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,1-Dichloroethene	<0.0054		0.0054	0.00085	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,2-Dichloropropane	<0.0054		0.0054	0.0012	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00061	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Ethylbenzene	<0.0054		0.0054	0.00081	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
2-Hexanone	<0.0054		0.0054	0.00076	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.00091	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00081	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Styrene	<0.0054		0.0054	0.00068	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Tetrachloroethene	<0.0054		0.0054	0.0010	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Toluene	<0.0054		0.0054	0.0010	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.0012	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.0010	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00072	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Trichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Vinyl chloride	<0.0054		0.0054	0.00075	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1
Xylenes, Total	<0.011		0.011	0.00075	mg/Kg	☼	02/20/12 15:10	02/24/12 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		67 - 120	02/20/12 15:10	02/24/12 12:17	1
Dibromofluoromethane	95		69 - 120	02/20/12 15:10	02/24/12 12:17	1
1,2-Dichloroethane-d4 (Surr)	89		69 - 120	02/20/12 15:10	02/24/12 12:17	1
Toluene-d8 (Surr)	106		69 - 122	02/20/12 15:10	02/24/12 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Acenaphthylene	<0.033		0.033	0.0085	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Benzo[a]pyrene	<0.037	*	0.037	0.0067	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-18-B01**

**Lab Sample ID: 500-44374-23**

**Date Collected: 02/20/12 15:10**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 88.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-18-B01**

**Lab Sample ID: 500-44374-23**

Date Collected: 02/20/12 15:10

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	02/21/12 17:39	02/27/12 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/21/12 17:39	02/27/12 21:51	1
2-Fluorophenol	73		30 - 110	02/21/12 17:39	02/27/12 21:51	1
Nitrobenzene-d5	80		22 - 110	02/21/12 17:39	02/27/12 21:51	1
Phenol-d5	79		26 - 112	02/21/12 17:39	02/27/12 21:51	1
Terphenyl-d14	78		33 - 129	02/21/12 17:39	02/27/12 21:51	1
2,4,6-Tribromophenol	77		30 - 137	02/21/12 17:39	02/27/12 21:51	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 10:22	1
<b>Barium</b>	<b>0.64</b>		0.50	0.010	mg/L		02/27/12 16:00	02/28/12 10:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 10:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 10:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:22	1
Copper	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 10:22	1
<b>Nickel</b>	<b>0.022 J</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:22	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 10:22	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 10:22	1
<b>Zinc</b>	<b>0.025 J</b>		0.10	0.020	mg/L		02/27/12 16:00	02/28/12 10:22	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 10:22	1
<b>Boron</b>	<b>2.0</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 10:22	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:22	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 10:22	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Arsenic</b>	<b>4.3</b>		0.54	0.12	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Barium</b>	<b>25</b>		0.54	0.064	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Beryllium</b>	<b>0.31</b>		0.21	0.016	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.026	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Chromium</b>	<b>6.7</b>		0.54	0.089	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Copper</b>	<b>9.4</b>		0.54	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Lead</b>	<b>3.9</b>		0.27	0.092	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Nickel</b>	<b>7.2</b>		0.54	0.12	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Zinc</b>	<b>17</b>		1.1	0.37	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Sodium</b>	<b>360</b>		54	9.8	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Potassium</b>	<b>530</b>		27	3.0	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
<b>Calcium</b>	<b>82000 B E</b>		11	1.9	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-18-B01**

**Lab Sample ID: 500-44374-23**

Date Collected: 02/20/12 15:10

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 88.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8000	B	11	4.6	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Vanadium	12		0.27	0.041	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Magnesium	49000		5.4	1.0	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Boron	4.0		2.7	0.50	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Manganese	270		0.54	0.075	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1
Cobalt	2.7		0.27	0.028	mg/Kg	☼	02/22/12 14:30	02/23/12 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/29/12 08:55	02/29/12 13:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0071	J	0.017	0.0052	mg/Kg	☼	02/23/12 08:10	02/23/12 10:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.49		0.200	0.200	SU			02/24/12 16:23	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	LCS or LCSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-634-5200 Contact: Dick Wright email: richard.wright@testamerica.com	Project Name: <u>Pte 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		COC No.: <u>1</u> of <u>3</u> Lab Job No.: _____ Sample Temp.: <u>500-4A374</u> <u>(3.2)(3.7)(3.5)</u>

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-11-B01-1	2/20/12	8:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
2	915B-11-B01-2	2/20	8:50	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
3	915B-7-B08	2/20	9:45	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
4	915B-11-B02-1	2/20	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
5	915B-11-B02-2	2/20	10:30	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
6	915B-11-B04-1	2/20	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-4'
7	915B-11-B04-2	2/20	11:00	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
8	915B-11-B06-1	2/20	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
9	915B-11-B06-1 Dup	2/20	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
10	915B-11-B06-2	2/20	11:45	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
11	915B-11-B08-1	2/20	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-4'
12	915B-11-B08-2	2/20	12:15	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'

Relinquished by: _____	Date/Time: <u>2/20/12 16:00</u>	Received by: _____	Date/Time: <u>2/20/12 16:23</u>
Relinquished by: _____	Date/Time: <u>2-20-12 15:16</u>	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: <u>2/21/12 07:00</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>RTD 10</u>	<b>COC No:</b> <u>2</u> of <u>3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <b>Test America - Chicago</b> Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-44374</u> Sample Temp:

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
13	915B-11-809-1	2/20	12:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
14	915B-11-809-2	2/20	12:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
15	915B-11-805-1	2/20	1:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
16	915B-11-805-2	2/20	1:15	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
17	915B-11-807-1	2/20	1:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
18	915B-11-807-2	2/20	1:45	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
19	915B-16-803	2/20	2:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
20	915B-16-805	2/20	2:20	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
21	915B-16-808	2/20	2:40	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
22	915B-17-801	2/20	3:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
23	915B-18-801	2/20	3:10	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'
24	915B-19-801	2/20	3:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.0'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/20/12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-20-12 16:23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 0700</u>









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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10017 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27602 Longitude: -88.39352

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27602 Longitude: -88.39352

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)]:

LOCATION 915B-19-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-19. SEE FIGURE 8 AND TABLE 5s OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44374-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13091084

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

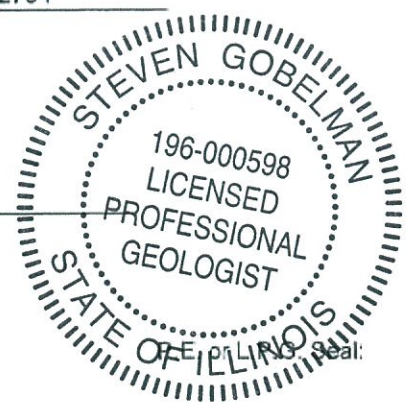
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 \_\_\_\_\_  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

11/4/19  
 \_\_\_\_\_  
 Date:





**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISGS Site 915B-19**  
**Residence**

<b>Sample ID</b>	915B-19-B01								
<b>Sample Depth (ft)</b>	0-6								
<b>Sample Date</b>	2/20/2012								
<b>PID</b>	0								
<b>Sample pH</b>	6.9								
<b>Matrix</b>	Soil								
<b>No Contaminants of Concern Noted.</b>									
		<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only		

# 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: 500-44374-1

TestAmerica Sample Delivery Group: 500-44374-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

9/20/2012 11:23:03 AM

Richard Wright

Project Manager II

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### LINKS

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

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-19-B01**

**Lab Sample ID: 500-44374-24**

Date Collected: 02/20/12 15:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0020	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Benzene	<0.0041		0.0041	0.00045	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Bromodichloromethane	<0.0041		0.0041	0.00063	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Bromoform	<0.0041		0.0041	0.00067	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Bromomethane	<0.0041		0.0041	0.00088	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
2-Butanone (MEK)	<0.0041		0.0041	0.00089	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Carbon disulfide	<0.0041		0.0041	0.00059	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Carbon tetrachloride	<0.0041		0.0041	0.00090	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Chlorobenzene	<0.0041		0.0041	0.00065	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Chloroethane	<0.0041		0.0041	0.00087	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Chloroform	<0.0041		0.0041	0.00076	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Chloromethane	<0.0041		0.0041	0.00068	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00060	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00047	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Dibromochloromethane	<0.0041		0.0041	0.00057	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,2-Dichloroethane	<0.0041		0.0041	0.00042	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,1-Dichloroethene	<0.0041		0.0041	0.00065	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,2-Dichloropropane	<0.0041		0.0041	0.00093	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00047	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Ethylbenzene	<0.0041		0.0041	0.00062	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
2-Hexanone	<0.0041		0.0041	0.00059	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Methylene Chloride	<0.0041		0.0041	0.0012	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00070	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00062	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Styrene	<0.0041		0.0041	0.00052	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Tetrachloroethene	<0.0041		0.0041	0.00078	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Toluene	<0.0041		0.0041	0.00080	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00059	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Vinyl chloride	<0.0041		0.0041	0.00058	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1
Xylenes, Total	<0.0082		0.0082	0.00058	mg/Kg	☼	02/20/12 15:30	02/24/12 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		67 - 120	02/20/12 15:30	02/24/12 12:42	1
Dibromofluoromethane	91		69 - 120	02/20/12 15:30	02/24/12 12:42	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 120	02/20/12 15:30	02/24/12 12:42	1
Toluene-d8 (Surr)	107		69 - 122	02/20/12 15:30	02/24/12 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Acenaphthylene	<0.034		0.034	0.0086	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Benzo[a]anthracene</b>	<b>0.022</b>	<b>J</b>	0.037	0.0078	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Benzo[a]pyrene</b>	<b>0.027</b>	<b>J *</b>	0.037	0.0068	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Benzo[b]fluoranthene</b>	<b>0.041</b>		0.037	0.0072	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-19-B01**

**Lab Sample ID: 500-44374-24**

**Date Collected: 02/20/12 15:30**

**Matrix: Solid**

**Date Received: 02/21/12 07:00**

**Percent Solids: 87.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.027</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Benzo[k]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.037	0.0089	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Fluoranthene</b>	<b>0.051</b>		0.037	0.015	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.021</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-19-B01**

**Lab Sample ID: 500-44374-24**

Date Collected: 02/20/12 15:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Phenanthrene</b>	<b>0.021</b>	<b>J</b>	0.037	0.016	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
<b>Pyrene</b>	<b>0.042</b>		0.037	0.013	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/21/12 17:39	02/22/12 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		27 - 113	02/21/12 17:39	02/22/12 20:13	1
2-Fluorophenol	78		30 - 110	02/21/12 17:39	02/22/12 20:13	1
Nitrobenzene-d5	66		22 - 110	02/21/12 17:39	02/22/12 20:13	1
Phenol-d5	68		26 - 112	02/21/12 17:39	02/22/12 20:13	1
Terphenyl-d14	79		33 - 129	02/21/12 17:39	02/22/12 20:13	1
2,4,6-Tribromophenol	78		30 - 137	02/21/12 17:39	02/22/12 20:13	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 10:28	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.010	mg/L		02/27/12 16:00	02/28/12 10:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/12 16:00	02/28/12 10:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/12 16:00	02/28/12 10:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:28	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:28	1
Lead	<0.0075		0.0075	0.0050	mg/L		02/27/12 16:00	02/28/12 10:28	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:28	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/12 16:00	02/28/12 10:28	1
Silver	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 10:28	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		02/27/12 16:00	02/28/12 10:28	1
Iron	<0.20		0.20	0.20	mg/L		02/27/12 16:00	02/28/12 10:28	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		02/27/12 16:00	02/28/12 10:28	1
<b>Manganese</b>	<b>0.052</b>		0.025	0.010	mg/L		02/27/12 16:00	02/28/12 10:28	1
Cobalt	<0.025		0.025	0.0050	mg/L		02/27/12 16:00	02/28/12 10:28	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Arsenic</b>	<b>5.2</b>		0.55	0.12	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Barium</b>	<b>53</b>		0.55	0.065	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Beryllium</b>	<b>0.53</b>		0.22	0.016	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Cadmium	<0.11		0.11	0.027	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Chromium</b>	<b>11</b>		0.55	0.092	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Copper</b>	<b>10</b>		0.55	0.15	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Lead</b>	<b>6.8</b>		0.27	0.094	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Nickel</b>	<b>11</b>		0.55	0.12	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Thallium</b>	<b>0.37</b>	<b>J</b>	0.55	0.14	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Zinc</b>	<b>27</b>		1.1	0.38	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Sodium</b>	<b>62</b>		55	10	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Potassium</b>	<b>590</b>		27	3.1	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
<b>Calcium</b>	<b>1500</b>	<b>B</b>	11	1.9	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

**Client Sample ID: 915B-19-B01**

**Lab Sample ID: 500-44374-24**

Date Collected: 02/20/12 15:30

Matrix: Solid

Date Received: 02/21/12 07:00

Percent Solids: 87.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13000	B	11	4.8	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Vanadium	21		0.27	0.042	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Magnesium	1900		5.5	1.1	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Boron	1.5	J	2.7	0.51	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Manganese	320		0.55	0.077	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1
Cobalt	4.7		0.27	0.029	mg/Kg	☼	02/22/12 14:30	02/23/12 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		02/27/12 16:00	03/02/12 11:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/12 16:00	03/02/12 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		02/29/12 08:55	02/29/12 13:40	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0056	mg/Kg	☼	02/23/12 08:10	02/23/12 10:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.90		0.200	0.200	SU			02/24/12 16:30	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44374-1  
SDG: 500-44374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
*	LCS or LCSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-634-5200 Contact: Dick Wright email: richard.wright@testamerica.com
Project Name: <u>Pte 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>3</u> Lab Job No.: <u>500-4A374</u> Sample Temp.: <u>(3.2)(3.7)(3.5)</u>	
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Sampler:</b>	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	915B-11-B01-1	2/20/12	8:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
2	915B-11-B01-2	2/20	8:50	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
3	915B-7-B08	2/20	9:45	S	✓	✓					✓	✓	✓	✓	✓	0-9.5'
4	915B-11-B02-1	2/20	10:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
5	915B-11-B02-2	2/20	10:30	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
6	915B-11-B04-1	2/20	10:45	S	✓	✓					✓	✓	✓	✓	✓	0-4'
7	915B-11-B04-2	2/20	11:00	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
8	915B-11-B06-1	2/20	11:15	S	✓	✓					✓	✓	✓	✓	✓	0-4'
9	915B-11-B06-1Dup	2/20	11:30	S	✓	✓					✓	✓	✓	✓	✓	0-4'
10	915B-11-B06-2	2/20	11:45	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'
11	915B-11-B08-1	2/20	12:00	S	✓	✓					✓	✓	✓	✓	✓	0-4'
12	915B-11-B08-2	2/20	12:15	S	✓	✓					✓	✓	✓	✓	✓	4-6.5'

Relinquished by:	<i>[Signature]</i>	Date/Time:	2/20/12 16:00
Relinquished by:	<i>[Signature]</i>	Date/Time:	2-20-12 16:00
Relinquished by:	<i>[Signature]</i>	Date/Time:	2/20/12 16:00



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>RTD 10</u> <b>Project No.:</b> <u>IDOT2011-032</u> <b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> <u>2</u> of <u>3</u> <b>Lab Job No.:</b> <u>500-44374</u> <b>Sample Temp:</b>
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**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization	
13	915B-11-809-1	2/20	12:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-4'
14	915B-11-809-2	2/20	12:45	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	4-6.5'
15	915B-11-805-1	2/20	1:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-4'
16	915B-11-805-2	2/20	1:15	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	4-6.5'
17	915B-11-807-1	2/20	1:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-4'
18	915B-11-807-2	2/20	1:45	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	4-6.5'
19	915B-16-803	2/20	2:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.5'
20	915B-16-805	2/20	2:20	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
21	915B-16-808	2/20	2:40	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-3.5'
22	915B-17-801	2/20	3:00	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.0'
23	915B-18-801	2/20	3:10	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.0'
24	915B-19-801	2/20	3:30	S	✓	✓				✓	✓	✓	✓	✓	✓	✓	0-6.0'

<b>Relinquished by:</b> <i>[Signature]</i>	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 2/20/12 16:23
<b>Relinquished by:</b> <i>[Signature]</i>	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 2/21/12 0700
<b>Relinquished by:</b>	<b>Received by:</b>	<b>Date/Time:</b>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>		<b>Laboratory</b>		Project Name: <u>Rte 19</u>		COC No.: <u>3</u> of <u>3</u>		
Andres Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project No.: <u>IDOT2011-032</u>		Lab Job No.: <u>500-9437A</u>		
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Sampler:		Sample Temp:		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES			Comments
25	915B-19-G01	2/20	4:00	W	VOCS	✓		14.0
26	TRIP BLANK	2/20	--	W	SVOCs			2vals T.B.
					BTEX & MTBE			
					PNAs			
					Pesticides			
					PCBs			
					Total Metals	✓		
					TCLP/SPLP Metals			
					pH	✓		
					% Solids			
					Waste Characterization			
Relinquished by: <u>[Signature]</u>					Date/Time: <u>2-20-12 16:20</u>	Received by: <u>[Signature]</u>		Date/Time: <u>2-20-12 16:20</u>
Relinquished by: <u>[Signature]</u>					Date/Time: <u>2-20-12 18:44</u>	Received by: <u>[Signature]</u>		Date/Time: <u>2-20-12 0700</u>
Relinquished by: <u>[Signature]</u>					Date/Time: _____	Received by: _____		Date/Time: _____



September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091084

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)



**Client:** Andrews Engineering, Inc.

**Work Order:** 13091084

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091084

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091084-001

Client Sample ID: 915B-19-B01

Matrix: SOLID

Collection Date: 09/20/2013 12:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0213</b>	mg/L	1	09/30/2013 10:11	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.17</b>	mg/L	1	09/25/2013 13:25	92207





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10200 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27656 Longitude: -88.39484

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.27656 Longitude: -88.39484Uncontaminated 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):

LOCATIONS 915B-20-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-20. SEE FIGURE 8 AND TABLE 5t OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44440-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13111393

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

I, Steven Gobelman, P.E., L.P.G. (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))*

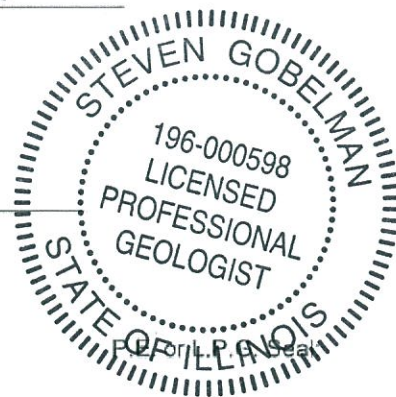
Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/2/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-20  
Pasture**

Sample ID	915B-20-B01	915B-20-B02						
Sample Depth (ft)	0-3.5	0-3.5						
Sample Date	2/23/2012	2/23/2012						
PID	0	0						
Sample pH	6.86	7.33						
Matrix	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>								
			<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

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

### LINKS

Review your project  
results through

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B01**

**Lab Sample ID: 500-44440-15**

Date Collected: 02/23/12 12:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Bromoform	<0.0046		0.0046	0.00074	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Chloroethane	<0.0046	*	0.0046	0.00096	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/23/12 12:00	02/29/12 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/23/12 12:00	02/29/12 06:12	1
Dibromofluoromethane	91		69 - 120	02/23/12 12:00	02/29/12 06:12	1
1,2-Dichloroethane-d4 (Surr)	89		69 - 120	02/23/12 12:00	02/29/12 06:12	1
Toluene-d8 (Surr)	92		69 - 122	02/23/12 12:00	02/29/12 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B01**

**Lab Sample ID: 500-44440-15**

**Date Collected: 02/23/12 12:00**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 82.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B01**

**Lab Sample ID: 500-44440-15**

Date Collected: 02/23/12 12:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		27 - 113	02/27/12 18:07	03/02/12 20:32	1
2-Fluorophenol	73		30 - 110	02/27/12 18:07	03/02/12 20:32	1
Nitrobenzene-d5	80		22 - 110	02/27/12 18:07	03/02/12 20:32	1
Phenol-d5	77		26 - 112	02/27/12 18:07	03/02/12 20:32	1
Terphenyl-d14	85		33 - 129	02/27/12 18:07	03/02/12 20:32	1
2,4,6-Tribromophenol	96		30 - 137	02/27/12 18:07	03/02/12 20:32	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00080	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
alpha-BHC	<0.0020		0.0020	0.00049	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
alpha-Chlordane	<0.0020		0.0020	0.00098	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
beta-BHC	<0.0020		0.0020	0.00060	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Endosulfan II	<0.0020		0.0020	0.00031	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Endosulfan sulfate	<0.0020		0.0020	0.00035	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Heptachlor	<0.0020		0.0020	0.00081	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Methoxychlor	<0.0096		0.0096	0.00038	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1
Toxaphene	<0.019		0.019	0.0082	mg/Kg	☼	02/29/12 20:41	03/01/12 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		43 - 126	02/29/12 20:41	03/01/12 14:06	1
Tetrachloro-m-xylene	83		32 - 111	02/29/12 20:41	03/01/12 14:06	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:29	1
Barium	0.44	J	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 12:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 12:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 12:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:29	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B01**

**Lab Sample ID: 500-44440-15**

Date Collected: 02/23/12 12:00

Matrix: Solid

Date Received: 02/24/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 12:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:29	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:29	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:29	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 12:29	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 12:29	1
<b>Boron</b>	<b>0.51</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 12:29	1
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:29	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Arsenic</b>	<b>9.6</b>		0.59	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Barium</b>	<b>36</b>		0.59	0.070	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Beryllium</b>	<b>0.56</b>		0.24	0.017	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Cadmium</b>	<b>0.25</b>		0.12	0.029	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Chromium</b>	<b>14</b>		0.59	0.099	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Copper</b>	<b>14</b>		0.59	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Lead</b>	<b>7.6</b>		0.30	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Nickel</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Zinc</b>	<b>34</b>		1.2	0.41	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Sodium</b>	<b>170</b>		59	11	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Potassium</b>	<b>740</b>		30	3.4	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Calcium</b>	<b>27000</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Iron</b>	<b>16000</b>		12	5.1	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Vanadium</b>	<b>25</b>		0.30	0.045	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Magnesium</b>	<b>18000</b>		5.9	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Boron</b>	<b>2.7</b>	<b>J</b>	3.0	0.55	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Manganese</b>	<b>180</b>		0.59	0.083	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1
<b>Cobalt</b>	<b>5.8</b>		0.30	0.031	mg/Kg	☼	02/29/12 16:45	03/03/12 06:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 10:02	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.022</b>		0.018	0.0055	mg/Kg	☼	02/28/12 13:45	02/29/12 10:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.86</b>		0.200	0.200	SU			03/01/12 17:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B02**

**Lab Sample ID: 500-44440-18**

Date Collected: 02/23/12 13:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Benzene	<0.0049		0.0049	0.00052	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Bromoform	<0.0049		0.0049	0.00079	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
2-Butanone (MEK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Carbon disulfide	<0.0049		0.0049	0.00069	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Chloroethane	<0.0049	*	0.0049	0.0010	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Chloroform	<0.0049		0.0049	0.00089	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,2-Dichloroethane	<0.0049		0.0049	0.00049	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00082	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/23/12 13:30	02/29/12 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		67 - 120	02/23/12 13:30	02/29/12 06:37	1
Dibromofluoromethane	91		69 - 120	02/23/12 13:30	02/29/12 06:37	1
1,2-Dichloroethane-d4 (Surr)	93		69 - 120	02/23/12 13:30	02/29/12 06:37	1
Toluene-d8 (Surr)	97		69 - 122	02/23/12 13:30	02/29/12 06:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B02**

**Lab Sample ID: 500-44440-18**

**Date Collected: 02/23/12 13:30**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 78.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B02**

**Lab Sample ID: 500-44440-18**

Date Collected: 02/23/12 13:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		27 - 113	02/27/12 18:07	03/02/12 20:53	1
2-Fluorophenol	77		30 - 110	02/27/12 18:07	03/02/12 20:53	1
Nitrobenzene-d5	88		22 - 110	02/27/12 18:07	03/02/12 20:53	1
Phenol-d5	81		26 - 112	02/27/12 18:07	03/02/12 20:53	1
Terphenyl-d14	94		33 - 129	02/27/12 18:07	03/02/12 20:53	1
2,4,6-Tribromophenol	101		30 - 137	02/27/12 18:07	03/02/12 20:53	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0021		0.0021	0.00084	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
alpha-BHC	<0.0021		0.0021	0.00051	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
alpha-Chlordane	<0.0021		0.0021	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
beta-BHC	<0.0021		0.0021	0.00063	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
4,4'-DDD	<0.0021		0.0021	0.00040	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
4,4'-DDE	<0.0021		0.0021	0.00034	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
4,4'-DDT	<0.0021		0.0021	0.0011	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
delta-BHC	<0.0021		0.0021	0.00064	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Dieldrin	<0.0021		0.0021	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Endosulfan I	<0.0021		0.0021	0.00088	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Endosulfan II	<0.0021		0.0021	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Endosulfan sulfate	<0.0021		0.0021	0.00037	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Endrin	<0.0021		0.0021	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Endrin aldehyde	<0.0021		0.0021	0.00034	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Endrin ketone	<0.0021		0.0021	0.00046	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
gamma-BHC (Lindane)	<0.0021		0.0021	0.00044	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
gamma-Chlordane	<0.0021		0.0021	0.00053	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Heptachlor	<0.0021		0.0021	0.00085	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Heptachlor epoxide	<0.0021		0.0021	0.00072	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Methoxychlor	<0.010		0.010	0.00039	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1
Toxaphene	<0.020		0.020	0.0085	mg/Kg	☼	02/29/12 20:41	03/01/12 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		43 - 126	02/29/12 20:41	03/01/12 14:27	1
Tetrachloro-m-xylene	88		32 - 111	02/29/12 20:41	03/01/12 14:27	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:50	1
Barium	0.29	J	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 12:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 12:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 12:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:50	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:50	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-20-B02**

**Lab Sample ID: 500-44440-18**

Date Collected: 02/23/12 13:30

Matrix: Solid

Date Received: 02/24/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 12:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:50	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:50	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:50	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 12:50	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 12:50	1
<b>Boron</b>	<b>0.56</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 12:50	1
<b>Manganese</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:50	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:50	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Arsenic</b>	<b>5.6</b>		0.60	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Barium</b>	<b>100</b>		0.60	0.071	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Beryllium</b>	<b>0.63</b>		0.24	0.018	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Cadmium</b>	<b>0.13</b>		0.12	0.030	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Chromium</b>	<b>16</b>		0.60	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Copper</b>	<b>17</b>		0.60	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Lead</b>	<b>11</b>		0.30	0.10	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Nickel</b>	<b>17</b>		0.60	0.13	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Selenium</b>	<b>0.28</b>	<b>J</b>	0.60	0.17	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Thallium</b>	<b>0.31</b>	<b>J</b>	0.60	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Zinc</b>	<b>44</b>		1.2	0.41	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Sodium</b>	<b>280</b>		60	11	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Potassium</b>	<b>820</b>		30	3.4	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Calcium</b>	<b>3100</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Iron</b>	<b>17000</b>		12	5.2	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Vanadium</b>	<b>21</b>		0.30	0.045	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Magnesium</b>	<b>3500</b>		6.0	1.2	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Boron</b>	<b>1.7</b>	<b>J</b>	3.0	0.56	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Manganese</b>	<b>460</b>		0.60	0.084	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1
<b>Cobalt</b>	<b>8.2</b>		0.30	0.031	mg/Kg	☼	02/29/12 16:45	03/03/12 06:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 10:04	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.024</b>		0.021	0.0064	mg/Kg	☼	02/28/12 13:45	02/29/12 11:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.33</b>		0.200	0.200	SU			03/01/12 18:00	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 16 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 1 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp:</b> (28)(32)(35)										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>														
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments
1	915B-12-B04-1	2/23	8:20	S	✓	✓					✓	✓	✓	✓		0-4'
2	915B-12-B04-2	2/23	8:30	S	✓	✓					✓	✓	✓	✓		4-6.5'
3	915B-16-B01	2/23	8:45	S	✓	✓					✓	✓	✓	✓		0-6.5'
4	915B-15-B01	2/23	9:10	S	✓	✓					✓	✓	✓	✓		0-6.5'
5	915B-14-B01	2/23	9:30	S	✓	✓					✓	✓	✓	✓		0-6.5'
6	915B-14-B01DUP	2/23	9:40	S	✓	✓					✓	✓	✓	✓		0-6.5'
7	915B-13-B01	2/23	10:00	S	✓	✓					✓	✓	✓	✓		0-6.5'
8	915B-16-B04	2/23	10:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
9	915B-16-B06	2/23	10:40	S	✓	✓					✓	✓	✓	✓		0-3.5'
10	915B-16-B09	2/23	11:00	S	✓	✓					✓	✓	✓	✓		0-3.5'
11	915B-16-B07	2/23	10:50	S	✓	✓					✓	✓	✓	✓		0-3.5'
12	915B-16-B10	2/23	11:10	S	✓	✓					✓	✓	✓	✓		0-3.5'
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00		Received by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00										
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 18:12		Received by: <i>[Signature]</i>		Date/Time: 2/24/12 07:00										
Relinquished by: <i>[Signature]</i>		Date/Time: _____		Received by: _____		Date/Time: _____										



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp.:</b>									
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>													
<b>Lab ID</b>	<b>Sample ID</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Matrix</b>	<b>VOCS</b>	<b>BTEX &amp; MTBE</b>	<b>PNAS</b>	<b>Pesticides</b>	<b>PCBs</b>	<b>Total Metals</b>	<b>TCLP/SPLP Metals</b>	<b>pH</b>	<b>% Solids</b>	<b>Waste Characterization</b>	<b>Comments</b>
13	915B-16-BD01P	2/23	11:20	S	✓					✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓					✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓			✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓			✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓			✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓			✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓			✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓			✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓			✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓			✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:26	S	✓			✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓			✓		✓	✓	✓	✓		5-9.0'
<b>Relinquished by:</b> <i>[Signature]</i>		<b>Date/Time:</b> 2/23/12 16:00		<b>Received by:</b> <i>[Signature]</i>		<b>Date/Time:</b> 2-23-12/1600									
<b>Relinquished by:</b> <i>[Signature]</i>		<b>Date/Time:</b> 2-23-12/1815		<b>Received by:</b> <i>[Signature]</i>		<b>Date/Time:</b> 2-23-12/1815									
<b>Relinquished by:</b> <i>[Signature]</i>		<b>Date/Time:</b> 2-23-12/1815		<b>Received by:</b> <i>[Signature]</i>		<b>Date/Time:</b> 2-23-12/1815									





December 05, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13111393

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 11/27/2013 1:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)



**Client:** Andrews Engineering, Inc.

**Work Order:** 13111393

**Client Project:** IDOT2011-032

**Report Date:** 05-Dec-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111393

Client Project: IDOT2011-032

Report Date: 05-Dec-13

Lab ID: 13111393-001

Client Sample ID: 915B-20-B02

Matrix: SOLID

Collection Date: 11/25/2013 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0762</b>	mg/L	1	12/04/2013 13:25	94262



CHAIN OF CUSTODY RECORD

Client Contact		Laboratory	
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	
Project Name: Rt14 McHenry Co			
Project No: IDOT 2011-032			
TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other			
Sample Temp: 1.4, Ice			
COC No.: 1 of 1			
Lab Job No.: 1311393			
Sampler: AEI			

Special Instructions:		ANALYSES				Matrix Key:																																																																																																									
See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td>1311393-001</td> <td>915B-20-Box</td> <td>11/25/13</td> <td>1240</td> <td>S</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	1311393-001	915B-20-Box	11/25/13	1240	S																																																																																																W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other		Comments: 0-3,5
Lab ID	Sample ID			Sample Date	Sample Time	Matrix																																																																																																									
1311393-001	915B-20-Box	11/25/13	1240	S																																																																																																											
VOCs SVOCs BETX & MTBE PNAs Pesticides PCBs * Total Metals SPLP/** TCLP Metals PH % Solids Waste Characterization SPLP mm/** TCLP mm		TekLab, Inc Courier Pick Up		Date/Time: 11-25-13 1555 Date/Time: 11-27-13 13:00 Date/Time:																																																																																																											

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	11/25/13 1555	<i>[Signature]</i>	11-27-13 13:00
<i>[Signature]</i>	11-27-13 1300	<i>[Signature]</i>	11-27-13 13:00
<i>[Signature]</i>			



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10200 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27637 Longitude: -88.39519

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27637 Longitude: -88.39519

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):

LOCATION 915B-21-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-21. SEE FIGURE 8 AND TABLE 5u OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44388-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

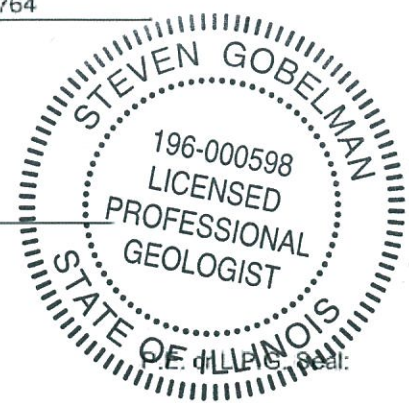
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

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

7/2/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-21  
Agricultural Field**

<b>Sample ID</b>	915B-21-B01						
<b>Sample Depth (ft)</b>	0-6						
<b>Sample Date</b>	2/21/2012						
<b>PID</b>	0						
<b>Sample pH</b>	7.09						
<b>Matrix</b>	Soil						
<b>No Contaminants of Concern Noted.</b>							
		<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44388-1

TestAmerica Sample Delivery Group: 500-44388-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 3:57:36 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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.*

1

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-21-B01**

**Lab Sample ID: 500-44388-1**

Date Collected: 02/21/12 08:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0021	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Benzene	<0.0043		0.0043	0.00047	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Bromodichloromethane	<0.0043		0.0043	0.00065	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Bromoform	<0.0043		0.0043	0.00070	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Bromomethane	<0.0043		0.0043	0.00092	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
2-Butanone (MEK)	<0.0043		0.0043	0.00093	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Carbon disulfide	<0.0043		0.0043	0.00061	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Carbon tetrachloride	<0.0043		0.0043	0.00094	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Chlorobenzene	<0.0043		0.0043	0.00068	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Chloroethane	<0.0043		0.0043	0.00090	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Chloroform	<0.0043		0.0043	0.00079	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Chloromethane	<0.0043		0.0043	0.00071	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00063	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00049	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Dibromochloromethane	<0.0043		0.0043	0.00059	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,2-Dichloroethane	<0.0043		0.0043	0.00044	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,1-Dichloroethene	<0.0043		0.0043	0.00068	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,2-Dichloropropane	<0.0043		0.0043	0.00097	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00049	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Ethylbenzene	<0.0043		0.0043	0.00065	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
2-Hexanone	<0.0043		0.0043	0.00061	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00073	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00065	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Styrene	<0.0043		0.0043	0.00054	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,1,1,2-Tetrachloroethane	<0.0043	*	0.0043	0.00059	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Tetrachloroethene	<0.0043		0.0043	0.00082	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Toluene	<0.0043		0.0043	0.00084	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Vinyl chloride	<0.0043		0.0043	0.00060	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1
Xylenes, Total	<0.0086		0.0086	0.00060	mg/Kg	☼	02/21/12 08:30	02/24/12 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/21/12 08:30	02/24/12 19:07	1
Dibromofluoromethane	92		69 - 120	02/21/12 08:30	02/24/12 19:07	1
1,2-Dichloroethane-d4 (Surr)	99		69 - 120	02/21/12 08:30	02/24/12 19:07	1
Toluene-d8 (Surr)	90		69 - 122	02/21/12 08:30	02/24/12 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Acenaphthylene	<0.035		0.035	0.0088	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Benzo[a]pyrene	<0.038	*	0.038	0.0070	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-21-B01**

**Lab Sample ID: 500-44388-1**

**Date Collected: 02/21/12 08:30**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-21-B01**

**Lab Sample ID: 500-44388-1**

Date Collected: 02/21/12 08:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		27 - 113	02/23/12 07:14	02/28/12 16:50	1
2-Fluorophenol	84		30 - 110	02/23/12 07:14	02/28/12 16:50	1
Nitrobenzene-d5	94		22 - 110	02/23/12 07:14	02/28/12 16:50	1
Phenol-d5	78		26 - 112	02/23/12 07:14	02/28/12 16:50	1
Terphenyl-d14	111		33 - 129	02/23/12 07:14	02/28/12 16:50	1
2,4,6-Tribromophenol	102		30 - 137	02/23/12 07:14	02/28/12 16:50	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:16	1
<b>Barium</b>	<b>0.63</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 10:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 10:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 10:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:16	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:16	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 10:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:16	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:16	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:16	1
Zinc	<0.10		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 10:16	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 10:16	1
Boron	<0.10		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 10:16	1
<b>Manganese</b>	<b>0.96</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:16	1
<b>Cobalt</b>	<b>0.0057 J</b>		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:16	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Arsenic</b>	<b>4.5</b>		0.59	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Barium</b>	<b>68</b>		0.59	0.070	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Beryllium</b>	<b>0.57</b>		0.23	0.017	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Cadmium	<0.12 L		0.12	0.029	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Chromium</b>	<b>12</b>		0.59	0.098	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Copper</b>	<b>14</b>		0.59	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Lead</b>	<b>9.0</b>		0.29	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Nickel</b>	<b>15</b>		0.59	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Thallium</b>	<b>0.23 J</b>		0.59	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Zinc</b>	<b>33</b>		1.2	0.40	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Sodium</b>	<b>180</b>		59	11	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Potassium</b>	<b>620</b>		29	3.3	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
<b>Calcium</b>	<b>3600 B</b>		12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-21-B01**

**Lab Sample ID: 500-44388-1**

Date Collected: 02/21/12 08:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 84.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13000		12	5.1	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Vanadium	23		0.29	0.044	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Magnesium	3400		5.9	1.1	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Boron	1.4	J	2.9	0.55	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Manganese	390		0.59	0.082	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1
Cobalt	7.3		0.29	0.031	mg/Kg	☼	02/23/12 16:50	02/29/12 01:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:13	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0052	mg/Kg	☼	02/23/12 11:00	02/23/12 12:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.09		0.200	0.200	SU			02/28/12 18:10	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-03Z</u> TAT: <input checked="" type="checkbox"/> 19 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project No.: <u>500-94368</u> Sample Temp: <u>(3.4) (4.6) (3.7)</u>	
COC No.: <u>1</u> of <u>3</u>		Lab Job No.: <u>500-94368</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments
1	915B-21-B01	2/21	8:30	S	✓	✓					✓	✓	✓	✓		0-6"
2	915B-23-B02	2/21	9:00	S	✓	✓					✓	✓	✓	✓		0-10'
3	915B-23-B02-DUP	2/21	9:30	S	✓	✓					✓	✓	✓	✓		0-10'
4	915B-26-B01-1	2/21	10:15	S	✓	✓					✓	✓	✓	✓		0-5'
5	915B-26-B02-1	2/21	10:45	S	✓	✓					✓	✓	✓	✓		0-5'
6	915B-26-B01-2	2/21	10:30	S	✓	✓					✓	✓	✓	✓		5-10'
7	915B-26-B02-2	2/21	11:00	S	✓	✓					✓	✓	✓	✓		5-10'
8	915B-26-B03-1	2/21	11:20	S	✓	✓					✓	✓	✓	✓		0-5'
9	915B-26-B03-2	2/21	11:40	S	✓	✓					✓	✓	✓	✓		5-10'
10	915B-26-B04-1	2/21	12:30	S	✓	✓					✓	✓	✓	✓		0-5'
11	915B-26-B04-2	2/21	12:45	S	✓	✓					✓	✓	✓	✓		5-10'
12	915B-26-B05-1	2/21	1:00	S	✓	✓					✓	✓	✓	✓		0-5'

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

Received by: [Signature] Date/Time: 2/21/12 16:24  
 Relinquished by: [Signature] Date/Time: 2-21-12-15:39  
 Relinquished by: [Signature] Date/Time: 2/21/12 17:00



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> 2 of 3 (Handwritten) <b>Lab Job No.:</b> 500-44388 <b>Sample Temp:</b>															
<b>ANALYSES</b>																		
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments		
13	915B-26-805-2	2/21	1:50	S	✓	✓					✓	✓	✓	✓		5-10'		
14	915B-26-805-10UP	2/21	1:30	S	✓	✓					✓	✓	✓	✓		0-5'		
15	915B-26-806-1	2/21	2:15	S	✓	✓					✓	✓	✓	✓		0-5'		
16	915B-26-806-2	2/21	2:30	S	✓	✓					✓	✓	✓	✓		5-10'		
17	915B-26-807-1	2/21	2:40	S	✓	✓					✓	✓	✓	✓		0-5'		
18	915B-26-807-2	2/21	2:50	S	✓	✓					✓	✓	✓	✓		5-10'		
19	915B-26-808-1	2/21	3:00	S	✓	✓					✓	✓	✓	✓		0-5'		
20	915B-26-808-2	2/21	3:10	S	✓	✓					✓	✓	✓	✓		5-10'		
21	915B-26-809-1	2/21	3:20	S	✓	✓					✓	✓	✓	✓		0-5'		
22	915B-26-809-2	2/21	3:30	S	✓	✓					✓	✓	✓	✓		5-10'		
23	915B-26-810-1	2/21	3:40	S	✓	✓					✓	✓	✓	✓		0-5'		
24	915B-26-810-1UP	2/21	3:50	S	✓	✓					✓	✓	✓	✓		0-5'		
Relinquished by: <i>[Signature]</i>					Date/Time	2/21/12 1624											Date/Time	2-21-12 1624
Relinquished by: <i>[Signature]</i>					Date/Time	2-21-12 1839											Date/Time	2/22/12 0700
Relinquished by: <i>[Signature]</i>					Date/Time												Date/Time	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.









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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10210 and 10214 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27683 Longitude: -88.39667  
(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27683 Longitude: -88.39667

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)]:

LOCATIONS 915B-22-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-22. SEE FIGURES 7 AND 8 AND TABLE 5v OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44440-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

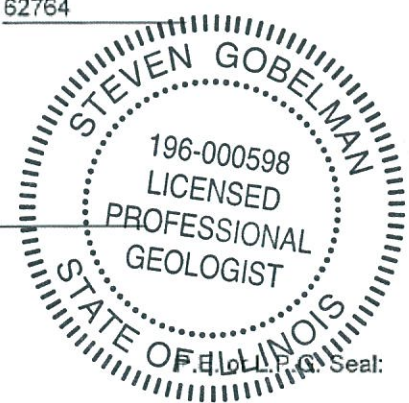
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/9/14  
 Date:



Seal:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISGS Site 915B-22  
Farmstead**

Sample ID	915B-22-B01-1	915B-22-B01-2	915B-22-B02-1	915B-22-B02-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-9	0-5	5-9						
Sample Date	2/23/2012	2/23/2012	2/23/2012	2/23/2012						
PID	0	0	0	0						
Sample pH	8.32	8.18	7.58	7.87						
Matrix	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (mg/kg)</b>										
Arsenic	4.8	3.9	12	1.3	11.3	NA	11.3	NA	13	NA

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-1**

**Lab Sample ID: 500-44440-23**

Date Collected: 02/23/12 15:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0026	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Benzene	<0.0053		0.0053	0.00057	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Bromodichloromethane	<0.0053		0.0053	0.00080	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Bromoform	<0.0053	*	0.0053	0.00086	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Bromomethane	<0.0053		0.0053	0.0011	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
2-Butanone (MEK)	<0.0053		0.0053	0.0011	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Carbon disulfide	<0.0053		0.0053	0.00075	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Carbon tetrachloride	<0.0053		0.0053	0.0012	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Chlorobenzene	<0.0053		0.0053	0.00084	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Chloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Chloroform	<0.0053		0.0053	0.00097	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Chloromethane	<0.0053		0.0053	0.00087	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00077	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00060	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Dibromochloromethane	<0.0053		0.0053	0.00073	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,2-Dichloroethane	<0.0053		0.0053	0.00054	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,1-Dichloroethene	<0.0053		0.0053	0.00084	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,2-Dichloropropane	<0.0053		0.0053	0.0012	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00060	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Ethylbenzene	<0.0053		0.0053	0.00079	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
2-Hexanone	<0.0053		0.0053	0.00075	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Methylene Chloride	<0.0053		0.0053	0.0015	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.00090	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00079	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Styrene	<0.0053		0.0053	0.00067	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Toluene	<0.0053		0.0053	0.0010	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00071	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Trichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Vinyl chloride	<0.0053		0.0053	0.00074	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1
Xylenes, Total	<0.011		0.011	0.00074	mg/Kg	☼	02/23/12 15:20	02/29/12 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		67 - 120	02/23/12 15:20	02/29/12 11:54	1
Dibromofluoromethane	92		69 - 120	02/23/12 15:20	02/29/12 11:54	1
1,2-Dichloroethane-d4 (Surr)	81		69 - 120	02/23/12 15:20	02/29/12 11:54	1
Toluene-d8 (Surr)	81		69 - 122	02/23/12 15:20	02/29/12 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Acenaphthylene	<0.036		0.036	0.0093	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-1**

**Lab Sample ID: 500-44440-23**

**Date Collected: 02/23/12 15:20**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-1**

**Lab Sample ID: 500-44440-23**

Date Collected: 02/23/12 15:20

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/24/12 15:52	03/02/12 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		27 - 113	02/24/12 15:52	03/02/12 22:39	1
2-Fluorophenol	67		30 - 110	02/24/12 15:52	03/02/12 22:39	1
Nitrobenzene-d5	73		22 - 110	02/24/12 15:52	03/02/12 22:39	1
Phenol-d5	71		26 - 112	02/24/12 15:52	03/02/12 22:39	1
Terphenyl-d14	80		33 - 129	02/24/12 15:52	03/02/12 22:39	1
2,4,6-Tribromophenol	82		30 - 137	02/24/12 15:52	03/02/12 22:39	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0020		0.0020	0.00081	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
alpha-BHC	<0.0020		0.0020	0.00050	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
alpha-Chlordane	<0.0020		0.0020	0.00099	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
beta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
4,4'-DDD	<0.0020		0.0020	0.00039	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
4,4'-DDE	<0.0020		0.0020	0.00032	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
4,4'-DDT	<0.0020		0.0020	0.0010	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
delta-BHC	<0.0020		0.0020	0.00061	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Dieldrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Endosulfan I	<0.0020		0.0020	0.00085	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Endosulfan II	<0.0020		0.0020	0.00032	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Endosulfan sulfate	<0.0020		0.0020	0.00036	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Endrin	<0.0020		0.0020	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Endrin aldehyde	<0.0020		0.0020	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Endrin ketone	<0.0020		0.0020	0.00044	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.00042	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
gamma-Chlordane	<0.0020		0.0020	0.00051	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Heptachlor	<0.0020		0.0020	0.00082	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Heptachlor epoxide	<0.0020		0.0020	0.00069	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Methoxychlor	<0.0097		0.0097	0.00038	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1
Toxaphene	<0.020		0.020	0.0082	mg/Kg	☼	02/29/12 20:41	03/01/12 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		43 - 126	02/29/12 20:41	03/01/12 14:47	1
Tetrachloro-m-xylene	81		32 - 111	02/29/12 20:41	03/01/12 14:47	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:38	1
Barium	0.69		0.50	0.010	mg/L		03/05/12 16:20	03/06/12 13:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 13:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 13:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:38	1
Copper	0.017 J		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:38	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-1**

**Lab Sample ID: 500-44440-23**

Date Collected: 02/23/12 15:20

Matrix: Solid

Date Received: 02/24/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 13:38	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:38	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:38	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:38	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 13:38	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 13:38	1
<b>Boron</b>	<b>0.53</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 13:38	1
<b>Manganese</b>	<b>0.86</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:38	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:38	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Arsenic</b>	<b>12</b>		0.61	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Barium</b>	<b>82</b>		0.61	0.073	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Beryllium</b>	<b>0.83</b>		0.25	0.018	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Cadmium</b>	<b>0.22</b>		0.12	0.030	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Chromium</b>	<b>20</b>		0.61	0.10	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Copper</b>	<b>21</b>		0.61	0.17	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Lead</b>	<b>15</b>	<b>B</b>	0.31	0.11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Nickel</b>	<b>18</b>		0.61	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Selenium</b>	<b>0.54</b>	<b>J</b>	0.61	0.18	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Thallium</b>	<b>0.17</b>	<b>J</b>	0.61	0.16	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Zinc</b>	<b>48</b>		1.2	0.42	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Sodium</b>	<b>340</b>		61	11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Potassium</b>	<b>820</b>		31	3.5	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Calcium</b>	<b>4500</b>	<b>B</b>	12	2.2	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Iron</b>	<b>26000</b>		12	5.3	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Vanadium</b>	<b>38</b>		0.31	0.047	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Magnesium</b>	<b>4300</b>	<b>B</b>	6.1	1.2	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Boron</b>	<b>1.8</b>	<b>J</b>	3.1	0.57	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Manganese</b>	<b>580</b>		0.61	0.087	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1
<b>Cobalt</b>	<b>10</b>		0.31	0.032	mg/Kg	☼	02/29/12 09:15	03/01/12 07:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:15	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.044</b>		0.020	0.0060	mg/Kg	☼	02/28/12 13:45	02/29/12 09:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.58</b>		0.200	0.200	SU			03/01/12 18:14	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-2**

**Lab Sample ID: 500-44440-24**

Date Collected: 02/23/12 15:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Bromodichloromethane	<0.0046		0.0046	0.00071	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Carbon disulfide	<0.0046		0.0046	0.00066	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00068	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Ethylbenzene	<0.0046		0.0046	0.00070	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
2-Hexanone	<0.0046		0.0046	0.00066	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00079	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00070	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Toluene	<0.0046		0.0046	0.00090	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1
Xylenes, Total	<0.0093		0.0093	0.00065	mg/Kg	☼	02/23/12 15:30	02/29/12 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/23/12 15:30	02/29/12 12:19	1
Dibromofluoromethane	89		69 - 120	02/23/12 15:30	02/29/12 12:19	1
1,2-Dichloroethane-d4 (Surr)	93		69 - 120	02/23/12 15:30	02/29/12 12:19	1
Toluene-d8 (Surr)	93		69 - 122	02/23/12 15:30	02/29/12 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Acenaphthylene	<0.031		0.031	0.0078	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Benzo[a]anthracene	<0.034		0.034	0.0071	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-2**

**Lab Sample ID: 500-44440-24**

**Date Collected: 02/23/12 15:30**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 95.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Chrysene	<0.034		0.034	0.0076	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0094	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.082	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,4-Dinitrophenol	<0.68		0.68	0.17	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Hexachlorobenzene	<0.068		0.068	0.0067	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Naphthalene	<0.034		0.034	0.0065	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
3-Nitroaniline	<0.34		0.34	0.065	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
4-Nitroaniline	<0.34		0.34	0.069	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Nitrobenzene	<0.034		0.034	0.010	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-2**

**Lab Sample ID: 500-44440-24**

**Date Collected: 02/23/12 15:30**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 95.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1
2,4,6-Trichlorophenol	<0.34		0.34	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		27 - 113	02/24/12 15:52	03/02/12 23:00	1
2-Fluorophenol	73		30 - 110	02/24/12 15:52	03/02/12 23:00	1
Nitrobenzene-d5	77		22 - 110	02/24/12 15:52	03/02/12 23:00	1
Phenol-d5	76		26 - 112	02/24/12 15:52	03/02/12 23:00	1
Terphenyl-d14	80		33 - 129	02/24/12 15:52	03/02/12 23:00	1
2,4,6-Tribromophenol	86		30 - 137	02/24/12 15:52	03/02/12 23:00	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0017		0.0017	0.00071	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
alpha-BHC	<0.0017		0.0017	0.00043	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
alpha-Chlordane	<0.0017		0.0017	0.00087	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
beta-BHC	<0.0017		0.0017	0.00053	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
4,4'-DDD	<0.0017		0.0017	0.00034	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
4,4'-DDE	<0.0017		0.0017	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
4,4'-DDT	<0.0017		0.0017	0.00090	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
delta-BHC	<0.0017		0.0017	0.00054	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Dieldrin	<0.0017		0.0017	0.00023	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Endosulfan I	<0.0017		0.0017	0.00075	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Endosulfan II	<0.0017		0.0017	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Endosulfan sulfate	<0.0017		0.0017	0.00031	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Endrin	<0.0017		0.0017	0.00024	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Endrin aldehyde	<0.0017		0.0017	0.00029	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Endrin ketone	<0.0017		0.0017	0.00039	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
gamma-BHC (Lindane)	<0.0017		0.0017	0.00037	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
gamma-Chlordane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Heptachlor	<0.0017		0.0017	0.00072	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Heptachlor epoxide	<0.0017		0.0017	0.00061	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Methoxychlor	<0.0085		0.0085	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1
Toxaphene	<0.017		0.017	0.0072	mg/Kg	☼	02/29/12 20:41	03/01/12 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		43 - 126	02/29/12 20:41	03/01/12 15:08	1
Tetrachloro-m-xylene	98		32 - 111	02/29/12 20:41	03/01/12 15:08	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:44	1
Barium	0.12	J	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 13:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 13:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 13:44	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:44	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:44	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B02-2**

**Lab Sample ID: 500-44440-24**

Date Collected: 02/23/12 15:30

Matrix: Solid

Date Received: 02/24/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 13:44	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:44	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:44	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:44	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 13:44	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 13:44	1
<b>Boron</b>	<b>0.53</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 13:44	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:44	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:44	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Arsenic</b>	<b>3.0</b>		0.49	0.11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Barium</b>	<b>10</b>		0.49	0.058	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Beryllium</b>	<b>0.28</b>		0.20	0.014	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Cadmium</b>	<b>0.23</b>		0.098	0.024	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Chromium</b>	<b>7.0</b>		0.49	0.082	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Copper</b>	<b>11</b>		0.49	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Lead</b>	<b>2.6</b>	<b>B</b>	0.24	0.084	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Nickel</b>	<b>5.6</b>		0.49	0.11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
Thallium	<0.49		0.49	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Zinc</b>	<b>17</b>		0.98	0.34	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Sodium</b>	<b>260</b>		49	9.0	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Potassium</b>	<b>580</b>		24	2.8	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Calcium</b>	<b>99000</b>	<b>B E</b>	9.8	1.7	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Iron</b>	<b>6900</b>		9.8	4.2	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Vanadium</b>	<b>12</b>		0.24	0.037	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Magnesium</b>	<b>45000</b>	<b>B</b>	4.9	0.95	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Boron</b>	<b>5.4</b>		2.4	0.46	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Manganese</b>	<b>240</b>		0.49	0.069	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1
<b>Cobalt</b>	<b>2.5</b>		0.24	0.026	mg/Kg	☼	02/29/12 09:15	03/01/12 07:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:17	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0049	mg/Kg	☼	02/28/12 13:45	02/29/12 09:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.87</b>		0.200	0.200	SU			03/01/12 18:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-1**

**Lab Sample ID: 500-44440-25**

Date Collected: 02/23/12 15:45

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Bromoform	<0.0044	*	0.0044	0.00072	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Bromomethane	<0.0044		0.0044	0.00095	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
2-Butanone (MEK)	<0.0044		0.0044	0.00096	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Carbon disulfide	<0.0044		0.0044	0.00063	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Carbon tetrachloride	<0.0044		0.0044	0.00097	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Chlorobenzene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Chloroethane	<0.0044		0.0044	0.00093	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Chloroform	<0.0044		0.0044	0.00082	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Chloromethane	<0.0044		0.0044	0.00073	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00065	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00051	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,2-Dichloropropane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00051	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
2-Hexanone	<0.0044		0.0044	0.00063	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Styrene	<0.0044		0.0044	0.00056	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Tetrachloroethene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Toluene	<0.0044		0.0044	0.00086	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1
Xylenes, Total	<0.0089		0.0089	0.00062	mg/Kg	☼	02/23/12 15:45	02/29/12 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		67 - 120	02/23/12 15:45	02/29/12 12:44	1
Dibromofluoromethane	99		69 - 120	02/23/12 15:45	02/29/12 12:44	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/23/12 15:45	02/29/12 12:44	1
Toluene-d8 (Surr)	90		69 - 122	02/23/12 15:45	02/29/12 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Acenaphthylene	<0.031		0.031	0.0078	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Benzo[a]anthracene	<0.034		0.034	0.0071	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-1**

**Lab Sample ID: 500-44440-25**

**Date Collected: 02/23/12 15:45**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 95.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Chrysene	<0.034		0.034	0.0077	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0095	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,4-Dinitrophenol	<0.69		0.69	0.17	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-1**

**Lab Sample ID: 500-44440-25**

Date Collected: 02/23/12 15:45

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		27 - 113	02/24/12 15:52	03/02/12 23:20	1
2-Fluorophenol	68		30 - 110	02/24/12 15:52	03/02/12 23:20	1
Nitrobenzene-d5	74		22 - 110	02/24/12 15:52	03/02/12 23:20	1
Phenol-d5	71		26 - 112	02/24/12 15:52	03/02/12 23:20	1
Terphenyl-d14	82		33 - 129	02/24/12 15:52	03/02/12 23:20	1
2,4,6-Tribromophenol	86		30 - 137	02/24/12 15:52	03/02/12 23:20	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0017		0.0017	0.00068	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
alpha-BHC	<0.0017		0.0017	0.00042	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
alpha-Chlordane	<0.0017		0.0017	0.00083	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
beta-BHC	<0.0017		0.0017	0.00051	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
4,4'-DDD	<0.0017		0.0017	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
4,4'-DDE	<0.0017		0.0017	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
4,4'-DDT	<0.0017		0.0017	0.00087	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
delta-BHC	<0.0017		0.0017	0.00052	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Dieldrin	<0.0017		0.0017	0.00023	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Endosulfan I	<0.0017		0.0017	0.00072	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Endosulfan II	<0.0017		0.0017	0.00027	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Endosulfan sulfate	<0.0017		0.0017	0.00030	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Endrin	<0.0017		0.0017	0.00023	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Endrin aldehyde	<0.0017		0.0017	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Endrin ketone	<0.0017		0.0017	0.00037	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
gamma-BHC (Lindane)	<0.0017		0.0017	0.00036	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
gamma-Chlordane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Heptachlor	<0.0017		0.0017	0.00069	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Heptachlor epoxide	<0.0017		0.0017	0.00059	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Methoxychlor	<0.0082		0.0082	0.00032	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1
Toxaphene	<0.016		0.016	0.0069	mg/Kg	☼	02/29/12 20:41	03/01/12 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		43 - 126	02/29/12 20:41	03/01/12 15:29	1
Tetrachloro-m-xylene	100		32 - 111	02/29/12 20:41	03/01/12 15:29	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:50	1
Barium	0.20	J	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 13:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 13:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:50	1
Copper	0.012	J	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:50	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-1**

**Lab Sample ID: 500-44440-25**

Date Collected: 02/23/12 15:45

Matrix: Solid

Date Received: 02/24/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 13:50	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:50	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:50	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:50	1
Zinc	<0.10		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 13:50	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 13:50	1
<b>Boron</b>	<b>0.54</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 13:50	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:50	1
<b>Cobalt</b>	<b>0.0080</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:50	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Arsenic</b>	<b>4.8</b>		0.51	0.11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Barium</b>	<b>17</b>		0.51	0.060	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Beryllium</b>	<b>0.32</b>		0.20	0.015	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Cadmium</b>	<b>0.23</b>		0.10	0.025	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Chromium</b>	<b>5.6</b>		0.51	0.085	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Copper</b>	<b>11</b>		0.51	0.14	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Lead</b>	<b>5.8</b>	<b>B</b>	0.25	0.087	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Nickel</b>	<b>6.3</b>		0.51	0.11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
Silver	<0.25		0.25	0.031	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Zinc</b>	<b>18</b>		1.0	0.35	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Sodium</b>	<b>310</b>		51	9.3	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Potassium</b>	<b>520</b>		25	2.9	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Calcium</b>	<b>62000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Iron</b>	<b>8000</b>		10	4.4	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Vanadium</b>	<b>13</b>		0.25	0.039	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Magnesium</b>	<b>36000</b>	<b>B</b>	5.1	0.99	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Boron</b>	<b>3.6</b>		2.5	0.47	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Manganese</b>	<b>200</b>		0.51	0.072	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1
<b>Cobalt</b>	<b>2.5</b>		0.25	0.027	mg/Kg	☼	02/29/12 09:15	03/01/12 07:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:18	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0061</b>	<b>J</b>	0.016	0.0050	mg/Kg	☼	02/28/12 13:45	02/29/12 09:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.32</b>		0.200	0.200	SU			03/01/12 18:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-2**

**Lab Sample ID: 500-44440-26**

Date Collected: 02/23/12 16:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 95.9

**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>		0.0046	0.0022	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Bromodichloromethane	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Ethylbenzene	<0.0046		0.0046	0.00068	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00068	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Styrene	<0.0046		0.0046	0.00057	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Toluene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
<b>1,1,1-Trichloroethane</b>	<b>0.0050</b>		0.0046	0.00088	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
<b>Trichloroethene</b>	<b>0.0092</b>		0.0046	0.00074	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1
Xylenes, Total	<0.0091		0.0091	0.00064	mg/Kg	☼	02/23/12 16:00	02/29/12 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		67 - 120	02/23/12 16:00	02/29/12 13:09	1
Dibromofluoromethane	91		69 - 120	02/23/12 16:00	02/29/12 13:09	1
1,2-Dichloroethane-d4 (Surr)	93		69 - 120	02/23/12 16:00	02/29/12 13:09	1
Toluene-d8 (Surr)	90		69 - 122	02/23/12 16:00	02/29/12 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-2**

**Lab Sample ID: 500-44440-26**

**Date Collected: 02/23/12 16:00**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 95.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-2**

**Lab Sample ID: 500-44440-26**

Date Collected: 02/23/12 16:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		27 - 113	02/24/12 15:52	03/02/12 23:41	1
2-Fluorophenol	71		30 - 110	02/24/12 15:52	03/02/12 23:41	1
Nitrobenzene-d5	78		22 - 110	02/24/12 15:52	03/02/12 23:41	1
Phenol-d5	75		26 - 112	02/24/12 15:52	03/02/12 23:41	1
Terphenyl-d14	81		33 - 129	02/24/12 15:52	03/02/12 23:41	1
2,4,6-Tribromophenol	88		30 - 137	02/24/12 15:52	03/02/12 23:41	1

**Method: 8081A - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0018		0.0018	0.00071	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
alpha-BHC	<0.0018		0.0018	0.00044	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
alpha-Chlordane	<0.0018		0.0018	0.00087	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
beta-BHC	<0.0018		0.0018	0.00053	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
4,4'-DDD	<0.0018		0.0018	0.00034	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
4,4'-DDE	<0.0018		0.0018	0.00029	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
4,4'-DDT	<0.0018		0.0018	0.00091	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
delta-BHC	<0.0018		0.0018	0.00054	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Dieldrin	<0.0018		0.0018	0.00024	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Endosulfan I	<0.0018		0.0018	0.00075	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Endosulfan II	<0.0018		0.0018	0.00028	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Endosulfan sulfate	<0.0018		0.0018	0.00031	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Endrin	<0.0018		0.0018	0.00024	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Endrin aldehyde	<0.0018		0.0018	0.00029	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Endrin ketone	<0.0018		0.0018	0.00039	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
gamma-BHC (Lindane)	<0.0018		0.0018	0.00037	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
gamma-Chlordane	<0.0018		0.0018	0.00045	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Heptachlor	<0.0018		0.0018	0.00072	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Heptachlor epoxide	<0.0018		0.0018	0.00061	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Methoxychlor	<0.0085		0.0085	0.00033	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1
Toxaphene	<0.017		0.017	0.0073	mg/Kg	☼	02/29/12 20:41	03/01/12 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		43 - 126	02/29/12 20:41	03/01/12 15:50	1
Tetrachloro-m-xylene	97		32 - 111	02/29/12 20:41	03/01/12 15:50	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 14:30	1
Barium	0.25	J	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 14:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 14:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 14:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 14:30	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 14:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-22-B01-2**

**Lab Sample ID: 500-44440-26**

Date Collected: 02/23/12 16:00

Matrix: Solid

Date Received: 02/24/12 07:00

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 14:30	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 14:30	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 14:30	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 14:30	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 14:30	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 14:30	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 14:30	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 14:30	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 14:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Arsenic</b>	<b>3.9</b>		0.50	0.11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Barium</b>	<b>17</b>		0.50	0.059	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Beryllium</b>	<b>0.39</b>		0.20	0.015	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Cadmium</b>	<b>0.26</b>		0.10	0.025	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Chromium</b>	<b>4.7</b>		0.50	0.083	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Copper</b>	<b>18</b>		0.50	0.14	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Lead</b>	<b>4.1</b>	<b>B</b>	0.25	0.086	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Nickel</b>	<b>6.3</b>		0.50	0.11	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Zinc</b>	<b>20</b>		1.0	0.34	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Sodium</b>	<b>370</b>		50	9.1	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Potassium</b>	<b>630</b>		25	2.8	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Calcium</b>	<b>75000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Iron</b>	<b>8700</b>		10	4.3	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Vanadium</b>	<b>18</b>		0.25	0.038	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Magnesium</b>	<b>38000</b>	<b>B</b>	5.0	0.97	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Boron</b>	<b>4.0</b>		2.5	0.46	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Manganese</b>	<b>240</b>		0.50	0.070	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1
<b>Cobalt</b>	<b>3.1</b>		0.25	0.026	mg/Kg	☼	02/29/12 09:15	03/01/12 07:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 09:20	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0051</b>	<b>J</b>	0.016	0.0049	mg/Kg	☼	02/28/12 13:45	02/29/12 09:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.18</b>		0.200	0.200	SU			03/01/12 18:26	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 16 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No: <u>1</u> of <u>3</u> Lab Job No.: <u>500-44440</u> Sample Temp: <u>(28)(32)(35)</u>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments
1	915B-12-B04-1	2/23	8:20	S	✓	✓					✓	✓	✓	✓		0-4'
2	915B-12-B04-2	2/23	8:30	S	✓	✓					✓	✓	✓	✓		4-6.5'
3	915B-16-B01	2/23	8:45	S	✓	✓					✓	✓	✓	✓		0-6.5'
4	915B-15-B01	2/23	9:10	S	✓	✓					✓	✓	✓	✓		0-6.5'
5	915B-14-B01	2/23	9:30	S	✓	✓					✓	✓	✓	✓		0-6.5'
6	915B-14-B01DUP	2/23	9:40	S	✓	✓					✓	✓	✓	✓		0-6.5'
7	915B-13-B01	2/23	10:00	S	✓	✓					✓	✓	✓	✓		0-6.5'
8	915B-16-B04	2/23	10:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
9	915B-16-B06	2/23	10:40	S	✓	✓					✓	✓	✓	✓		0-3.5'
10	915B-16-B09	2/23	11:00	S	✓	✓					✓	✓	✓	✓		0-3.5'
11	915B-16-B07	2/23	10:50	S	✓	✓					✓	✓	✓	✓		0-3.5'
12	915B-16-B10	2/23	11:10	S	✓	✓					✓	✓	✓	✓		0-3.5'
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/23/12 16:00</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2/23/12 16:00</u>										
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/23/12 18:12</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2/24/12 0700</u>										
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/23/12 18:12</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2/24/12 0700</u>										



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>2 of 3</u> Lab Job No.: <u>500-44440</u> Sample Temp:										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-16-BD01P	2/23	11:20	S	✓						✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓						✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓				✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓				✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓				✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓				✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓				✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓				✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓				✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓				✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:26	S	✓				✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓				✓		✓	✓	✓	✓		5-9.0'
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/23/12 16:00</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2-23-12/1600</u>										
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2-23-12/1815</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2-23-12/1815</u>										
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2-23-12/1815</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2-23-12/1815</u>										









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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10215 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27682 Longitude: -88.39797

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27682 Longitude: -88.39797

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):

LOCATIONS 915B-23-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-23. SEE FIGURES 7 AND 8 AND TABLE 5w OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44517-1 AND 500-44388-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

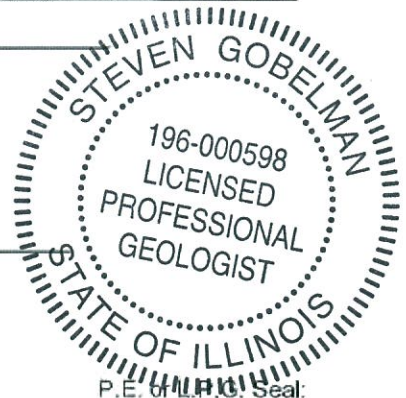
Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/8/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-23  
Residence and Vacant Land**

Sample ID	915B-23-B01	915B-23-B02	915B-23-B02	915B-23-B02 DUF						
Sample Depth (ft)	0-10	0-10	0-10	0-10						
Sample Date	2/28/2012	2/21/2012	2/21/2012	2/21/2012						
PID	0	0	0	0						
Sample pH	7.44	7.93	8.09	8.09						
Matrix	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>										
					<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44517-1

TestAmerica Sample Delivery Group: 500-44517-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/21/2012 2:05:21 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-23-B01**

**Lab Sample ID: 500-44517-5**

Date Collected: 02/28/12 17:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.26		0.26	0.098	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Benzene	<0.013		0.013	0.0041	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Bromodichloromethane	<0.10		0.10	0.014	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Bromoform	<0.10		0.10	0.029	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Bromomethane	<0.10		0.10	0.044	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
2-Butanone (MEK)	<0.26		0.26	0.053	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Carbon disulfide	<0.26		0.26	0.022	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Carbon tetrachloride	<0.051		0.051	0.014	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Chlorobenzene	<0.051		0.051	0.012	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Chloroethane	<0.10		0.10	0.025	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Chloroform	<0.051		0.051	0.013	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Chloromethane	<0.10		0.10	0.025	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
cis-1,2-Dichloroethene	<0.051		0.051	0.011	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
cis-1,3-Dichloropropene	<0.051		0.051	0.014	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Dibromochloromethane	<0.10		0.10	0.019	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,1-Dichloroethane	<0.051		0.051	0.012	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,2-Dichloroethane	<0.051		0.051	0.014	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,1,1-Dichloroethane	<0.051		0.051	0.015	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,2-Dichloropropane	<0.051		0.051	0.018	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,3-Dichloropropene, Total	<0.051		0.051	0.014	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Ethylbenzene	<0.013		0.013	0.0072	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
2-Hexanone	<0.26	*	0.26	0.029	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Methylene Chloride	<0.26		0.26	0.032	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
4-Methyl-2-pentanone (MIBK)	<0.26		0.26	0.040	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Methyl tert-butyl ether	<0.10		0.10	0.024	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Styrene	<0.051		0.051	0.013	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,1,1,2-Tetrachloroethane	<0.051		0.051	0.018	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Tetrachloroethene	<0.051		0.051	0.011	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Toluene	<0.013		0.013	0.0077	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
trans-1,2-Dichloroethene	<0.051		0.051	0.014	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
trans-1,3-Dichloropropene	<0.051		0.051	0.018	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,1,1-Trichloroethane	<0.051		0.051	0.013	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
1,1,2-Trichloroethane	<0.051		0.051	0.015	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Trichloroethene	<0.013		0.013	0.0077	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Vinyl chloride	<0.013		0.013	0.0065	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50
Xylenes, Total	<0.026		0.026	0.0066	mg/Kg	☼	02/28/12 17:15	03/11/12 07:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		79 - 120	02/28/12 17:15	03/11/12 07:47	50
Dibromofluoromethane	107		74 - 123	02/28/12 17:15	03/11/12 07:47	50
1,2-Dichloroethane-d4 (Surr)	97		75 - 131	02/28/12 17:15	03/11/12 07:47	50
Toluene-d8 (Surr)	105		80 - 120	02/28/12 17:15	03/11/12 07:47	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-23-B01**

**Lab Sample ID: 500-44517-5**

**Date Collected: 02/28/12 17:15**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-23-B01**

**Lab Sample ID: 500-44517-5**

**Date Collected: 02/28/12 17:15**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	03/02/12 07:00	03/09/12 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		30 - 119	03/02/12 07:00	03/09/12 15:42	1
2-Fluorophenol	59		30 - 110	03/02/12 07:00	03/09/12 15:42	1
Nitrobenzene-d5	62		30 - 115	03/02/12 07:00	03/09/12 15:42	1
Phenol-d5	65		31 - 110	03/02/12 07:00	03/09/12 15:42	1
Terphenyl-d14	70		36 - 134	03/02/12 07:00	03/09/12 15:42	1
2,4,6-Tribromophenol	72		35 - 137	03/02/12 07:00	03/09/12 15:42	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:53	1
<b>Barium</b>	<b>0.63</b>		0.50	0.010	mg/L		03/08/12 08:00	03/08/12 18:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 08:00	03/08/12 18:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 08:00	03/08/12 18:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:53	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 08:00	03/08/12 18:53	1
<b>Nickel</b>	<b>0.012 J</b>		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:53	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:53	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:53	1
Zinc	<0.10		0.10	0.020	mg/L		03/08/12 08:00	03/08/12 18:53	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 08:00	03/08/12 18:53	1
<b>Boron</b>	<b>0.72</b>		0.10	0.050	mg/L		03/08/12 08:00	03/08/12 18:53	1
<b>Manganese</b>	<b>0.79</b>		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:53	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Arsenic</b>	<b>4.9</b>		0.58	0.13	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Barium</b>	<b>72</b>		0.58	0.069	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Beryllium</b>	<b>0.64</b>		0.23	0.017	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Cadmium</b>	<b>0.11 J</b>		0.12	0.029	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Chromium</b>	<b>13</b>		0.58	0.096	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Copper</b>	<b>9.7</b>		0.58	0.16	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Lead</b>	<b>7.9</b>		0.29	0.099	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Nickel</b>	<b>11</b>		0.58	0.13	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Zinc</b>	<b>27</b>		1.2	0.40	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Sodium</b>	<b>270</b>		58	11	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Potassium</b>	<b>870</b>		29	3.3	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
<b>Calcium</b>	<b>29000 B</b>		12	2.0	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-23-B01**

**Lab Sample ID: 500-44517-5**

Date Collected: 02/28/12 17:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 81.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13000		12	5.0	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Vanadium	27		0.29	0.044	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Magnesium	18000		5.8	1.1	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Boron	2.9		2.9	0.54	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Manganese	400		0.58	0.081	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1
Cobalt	6.5		0.29	0.030	mg/Kg	☼	03/06/12 09:45	03/08/12 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 08:00	03/09/12 12:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 08:00	03/09/12 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:26	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0054	mg/Kg	☼	03/06/12 08:30	03/06/12 11:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.44		0.200	0.200	SU			03/08/12 15:47	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
*	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.
E	Result exceeded calibration range.

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>AE14</u>	<b>Project No.:</b> <u>DOT2011-032</u>
		<b>COC No.:</b> <u>4</u> of <u>5</u>	<b>Lab Job No.:</b> <u>500-44577</u>
		<b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>Sample Temp.:</b> <u>3.8</u>
		<b>Sampler:</b>	

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments																
	915B-46-B05-1	2/28	3:10	S			✓	✓			✓	✓	✓	✓		0-4'																
	915B-46-B05-2	2/28	3:15	S			✓	✓			✓	✓	✓	✓		4-8'																
	915B-46-B06-1	2/28	4:15	S			✓	✓			✓	✓	✓	✓		0-4'																
	915B-46-B06-2	2/28	4:20	S			✓	✓			✓	✓	✓	✓		4-8'																
1	915B-47-B01-1	2/28	4:30	S	✓	✓					✓	✓	✓	✓		0-5'																
2	915B-47-B01-2	2/28	4:50	S	✓	✓					✓	✓	✓	✓		5-10'																
3	915B-47-B01-3	2/28	5:00	S	✓	✓					✓	✓	✓	✓		10-15'																
4	915B-47-B01-10VP	2/28	4:40	S	✓	✓					✓	✓	✓	✓		0-5'																
5	915B-23-001	2/28	5:15	S	✓	✓					✓	✓	✓	✓		0-10'																
<table border="1"> <tr> <td>Relinquished by:</td> <td><i>[Signature]</i></td> <td>Date/Time:</td> <td>2/28/12 17:10</td> </tr> <tr> <td>Received by:</td> <td><i>[Signature]</i></td> <td>Date/Time:</td> <td>2/29/12 11:10</td> </tr> <tr> <td>Relinquished by:</td> <td><i>[Signature]</i></td> <td>Date/Time:</td> <td>2/28/12 11:10</td> </tr> <tr> <td>Received by:</td> <td><i>[Signature]</i></td> <td>Date/Time:</td> <td>2/28/12 11:10</td> </tr> </table>																	Relinquished by:	<i>[Signature]</i>	Date/Time:	2/28/12 17:10	Received by:	<i>[Signature]</i>	Date/Time:	2/29/12 11:10	Relinquished by:	<i>[Signature]</i>	Date/Time:	2/28/12 11:10	Received by:	<i>[Signature]</i>	Date/Time:	2/28/12 11:10
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Received by:	<i>[Signature]</i>	Date/Time:	2/28/12 11:10																													





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>ETE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>5</u> of <u>5</u> Lab Job No.: <u>500-41507</u> Sample Temp:
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**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
6	95B-46-G01	2/28	3:20	W	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	17.2
7	TRAP BLANK			W	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Relinquished by: <u>[Signature]</u> Date/Time: <u>2/28/12 12:10</u>	Received by: <u>[Signature]</u> Date/Time: <u>2/28/12 11:10</u>
Relinquished by: <u>[Signature]</u> Date/Time: <u>TA 2/29/12</u>	Received by: <u>[Signature]</u> Date/Time: <u>TA 2/29/12 11:10</u>
Relinquished by:	Received by:

# 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: 500-44388-1

TestAmerica Sample Delivery Group: 500-44388-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

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

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02**

**Lab Sample ID: 500-44388-2**

Date Collected: 02/21/12 09:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Bromoform	<0.0050		0.0050	0.00081	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Chloroform	<0.0050		0.0050	0.00092	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Chloromethane	<0.0050		0.0050	0.00082	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00085	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,1,1,2-Tetrachloroethane	<0.0050 *		0.0050	0.00068	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Tetrachloroethene	<0.0050		0.0050	0.00095	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Toluene	<0.0050		0.0050	0.00097	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Trichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/21/12 09:00	02/24/12 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/21/12 09:00	02/24/12 19:32	1
Dibromofluoromethane	93		69 - 120	02/21/12 09:00	02/24/12 19:32	1
1,2-Dichloroethane-d4 (Surr)	96		69 - 120	02/21/12 09:00	02/24/12 19:32	1
Toluene-d8 (Surr)	92		69 - 122	02/21/12 09:00	02/24/12 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Benzo[a]pyrene	<0.040 *		0.040	0.0073	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02**

**Lab Sample ID: 500-44388-2**

**Date Collected: 02/21/12 09:00**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02**

**Lab Sample ID: 500-44388-2**

Date Collected: 02/21/12 09:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	38		27 - 113	02/23/12 07:14	02/28/12 17:14	1
2-Fluorophenol	42		30 - 110	02/23/12 07:14	02/28/12 17:14	1
Nitrobenzene-d5	39		22 - 110	02/23/12 07:14	02/28/12 17:14	1
Phenol-d5	38		26 - 112	02/23/12 07:14	02/28/12 17:14	1
Terphenyl-d14	56		33 - 129	02/23/12 07:14	02/28/12 17:14	1
2,4,6-Tribromophenol	51		30 - 137	02/23/12 07:14	02/28/12 17:14	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:41	1
<b>Barium</b>	<b>0.62</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 10:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 10:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 10:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:41	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:41	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 10:41	1
<b>Nickel</b>	<b>0.015 J</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:41	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:41	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:41	1
<b>Zinc</b>	<b>0.020 J</b>		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 10:41	1
<b>Iron</b>	<b>0.41</b>		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 10:41	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 10:41	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:41	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Arsenic</b>	<b>5.3</b>		0.60	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Barium</b>	<b>75</b>		0.60	0.072	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Beryllium</b>	<b>0.54</b>		0.24	0.018	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Cadmium</b>	<b>0.045 J</b>		0.12	0.030	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Chromium</b>	<b>14</b>		0.60	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Copper</b>	<b>14</b>		0.60	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Lead</b>	<b>8.2</b>		0.30	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Nickel</b>	<b>13</b>		0.60	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
Thallium	<0.60		0.60	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Zinc</b>	<b>32</b>		1.2	0.41	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Sodium</b>	<b>140</b>		60	11	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Potassium</b>	<b>990</b>		30	3.4	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1
<b>Calcium</b>	<b>31000 B</b>		12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 01:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02**

**Lab Sample ID: 500-44388-2**

Date Collected: 02/21/12 09:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		12	5.2	mg/Kg	⊛	02/23/12 16:50	02/29/12 01:35	1
Vanadium	21		0.30	0.046	mg/Kg	⊛	02/23/12 16:50	02/29/12 01:35	1
Magnesium	20000		6.0	1.2	mg/Kg	⊛	02/23/12 16:50	02/29/12 01:35	1
Boron	3.1		3.0	0.56	mg/Kg	⊛	02/23/12 16:50	02/29/12 01:35	1
Manganese	430		0.60	0.085	mg/Kg	⊛	02/23/12 16:50	02/29/12 01:35	1
Cobalt	6.4		0.30	0.032	mg/Kg	⊛	02/23/12 16:50	02/29/12 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:29	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0059	mg/Kg	⊛	02/23/12 11:00	02/23/12 12:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93		0.200	0.200	SU			02/28/12 18:14	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02 DUP**

**Lab Sample ID: 500-44388-3**

Date Collected: 02/21/12 09:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Bromoform	<0.0050		0.0050	0.00081	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Chloroform	<0.0050		0.0050	0.00092	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Chloromethane	<0.0050		0.0050	0.00082	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00085	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Tetrachloroethene	<0.0050		0.0050	0.00095	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Toluene	<0.0050		0.0050	0.00097	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
<b>1,1,1-Trichloroethane</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.00096	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
<b>Trichloroethene</b>	<b>0.0053</b>		0.0050	0.00081	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/21/12 09:30	02/27/12 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/21/12 09:30	02/27/12 13:05	1
Dibromofluoromethane	88		69 - 120	02/21/12 09:30	02/27/12 13:05	1
1,2-Dichloroethane-d4 (Surr)	89		69 - 120	02/21/12 09:30	02/27/12 13:05	1
Toluene-d8 (Surr)	87		69 - 122	02/21/12 09:30	02/27/12 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Benzo[a]pyrene	<0.040	*	0.040	0.0073	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02 DUP**

**Lab Sample ID: 500-44388-3**

**Date Collected: 02/21/12 09:30**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02 DUP**

**Lab Sample ID: 500-44388-3**

Date Collected: 02/21/12 09:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	38		27 - 113	02/23/12 07:14	02/28/12 17:38	1
2-Fluorophenol	40		30 - 110	02/23/12 07:14	02/28/12 17:38	1
Nitrobenzene-d5	38		22 - 110	02/23/12 07:14	02/28/12 17:38	1
Phenol-d5	36		26 - 112	02/23/12 07:14	02/28/12 17:38	1
Terphenyl-d14	54		33 - 129	02/23/12 07:14	02/28/12 17:38	1
2,4,6-Tribromophenol	46		30 - 137	02/23/12 07:14	02/28/12 17:38	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:47	1
<b>Barium</b>	<b>0.60</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 10:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 10:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 10:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:47	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 10:47	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:47	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:47	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:47	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 10:47	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 10:47	1
<b>Boron</b>	<b>2.0</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 10:47	1
<b>Manganese</b>	<b>0.99</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:47	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Arsenic</b>	<b>6.4</b>		0.61	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Barium</b>	<b>73</b>		0.61	0.072	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Beryllium</b>	<b>0.56</b>		0.24	0.018	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Cadmium	<0.12		0.12	0.030	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Chromium</b>	<b>12</b>		0.61	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Copper</b>	<b>15</b>		0.61	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Lead</b>	<b>8.0</b>		0.30	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Nickel</b>	<b>15</b>		0.61	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Selenium	<0.61		0.61	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Silver	<0.30		0.30	0.037	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Thallium</b>	<b>0.42</b>	<b>J</b>	0.61	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Zinc</b>	<b>33</b>		1.2	0.42	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Sodium</b>	<b>120</b>		61	11	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Potassium</b>	<b>870</b>		30	3.4	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
<b>Calcium</b>	<b>23000</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-23-B02 DUP**

**Lab Sample ID: 500-44388-3**

Date Collected: 02/21/12 09:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14000		12	5.3	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Vanadium	24		0.30	0.046	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Magnesium	15000		6.1	1.2	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Boron	2.3	J	3.0	0.57	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Manganese	480		0.61	0.086	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1
Cobalt	6.6		0.30	0.032	mg/Kg	☼	02/23/12 16:50	02/29/12 01:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:31	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.021	0.0064	mg/Kg	☼	02/23/12 11:00	02/23/12 12:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			02/28/12 18:18	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-03Z</u> TAT: <input checked="" type="checkbox"/> 19 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project No.: <u>500-94368</u> Sample Temp: <u>(3.4) (4.6) (3.7)</u>	
COC No.: <u>1</u> of <u>3</u>		Lab Job No.: <u>500-94368</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization		
1	915B-21-B01	2/21	8:30	S	✓	✓					✓	✓	✓	✓		0-6"	
2	915B-23-B02	2/21	9:00	S	✓	✓					✓	✓	✓	✓		0-10"	
3	915B-23-B02-DUP	2/21	9:30	S	✓	✓					✓	✓	✓	✓		0-10"	
4	915B-26-B01-1	2/21	10:15	S	✓	✓					✓	✓	✓	✓		0-5"	
5	915B-26-B02-1	2/21	10:45	S	✓	✓					✓	✓	✓	✓		0-5"	
6	915B-26-B01-2	2/21	10:30	S	✓	✓					✓	✓	✓	✓		5-10"	
7	915B-26-B02-2	2/21	11:00	S	✓	✓					✓	✓	✓	✓		5-10"	
8	915B-26-B03-1	2/21	11:20	S	✓	✓					✓	✓	✓	✓		0-5"	
9	915B-26-B03-2	2/21	11:40	S	✓	✓					✓	✓	✓	✓		5-10"	
10	915B-26-B04-1	2/21	12:30	S	✓	✓					✓	✓	✓	✓		0-5"	
11	915B-26-B04-2	2/21	12:45	S	✓	✓					✓	✓	✓	✓		5-10"	
12	915B-26-B05-1	2/21	1:00	S	✓	✓					✓	✓	✓	✓		0-5"	

Received by: [Signature] Date/Time: 2/21/12 16:24

Relinquished by: [Signature] Date/Time: 2-21-12-15:39

Relinquished by: [Signature] Date/Time: 2/21/12 16:24





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other <b>Sampler:</b>
<b>COC No.:</b> 2 of 3 (Handwritten) <b>Lab Job No.:</b> 500-44388 <b>Sample Temp.:</b>		<b>Matrix Key:</b> W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization	
13	915B-26-805-2	2/21	1:50	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5-10'
14	915B-26-805-10UP	2/21	1:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-5'
15	915B-26-806-1	2/21	2:15	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-5'
16	915B-26-806-2	2/21	2:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5-10'
17	915B-26-807-1	2/21	2:40	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-5'
18	915B-26-807-2	2/21	2:50	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5-10'
19	915B-26-808-1	2/21	3:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-5'
20	915B-26-808-2	2/21	3:10	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5-10'
21	915B-26-809-1	2/21	3:20	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-5'
22	915B-26-809-2	2/21	3:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5-10'
23	915B-26-810-1	2/21	3:40	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-5'
24	915B-26-810-1UP	2/21	3:50	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-5'

Relinquished by: <i>[Signature]</i>	Date/Time: 2/21/12 1624	Received by: <i>[Signature]</i>	Date/Time: 2/22/12 0700
Relinquished by: <i>[Signature]</i>	Date/Time: 2-21-12 1839	Received by: <i>[Signature]</i>	Date/Time: 2/22/12 0700
Relinquished by: <i>[Signature]</i>	Date/Time: 2/21/12 1624	Received by: <i>[Signature]</i>	Date/Time: 2/22/12 0700



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>RTCL</u>	<b>COC No.:</b> <u>3 of 3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project No.: IDOT2011- <u>032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: <u>500-44388</u> Sample Temp.

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOGs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
25	915B-26-B10-2	2/21	4:00	S	✓					✓	✓	✓	✓		5-10'
26	915B-26-B11-1	2/21	4:10	S	✓					✓	✓	✓	✓		0-5'
27	915B-26-B11-2	2/21	4:20	S	✓					✓	✓	✓	✓		5-10'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/21/12 16:28</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12/16:28</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-21-12/16:38</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/21/12 0700</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u> </u>	Received by: <u>[Signature]</u>	Date/Time: <u> </u>





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10200 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27705 Longitude: -88.39812

(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: 1110955036 BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

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

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

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

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

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

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27705 Longitude: -88.39812

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):

LOCATIONS 915B-24-B01 AND -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-24. SEE FIGURE 7 AND TABLE 5x OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44440-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13111396

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

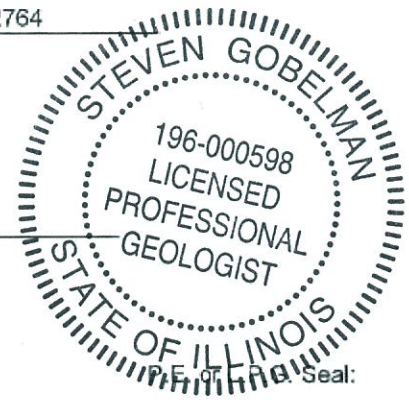
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/9/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-24  
Pacific Electronics**

Sample ID	915B-24-B01	915B-24-B03					
Sample Depth (ft)	0-3.5	0-3.5					
Sample Date	2/23/2012	2/23/2012					
PID	0	0					
Sample pH	7.61	7.62					
Matrix	Soil	Soil					
<b>No Contaminants of Concern Noted.</b>							

<sup>1</sup> Most Stringent MAC

<sup>2</sup> Outside a Populated Area MAC

<sup>3</sup> Populated non-Metropolitan Statistical Area MAC

<sup>4</sup> Within Chicago Corporate Limits MAC

<sup>5</sup> Metropolitan Statistical Area MAC

<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

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Richard Wright

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B03**

**Lab Sample ID: 500-44440-19**

Date Collected: 02/23/12 14:15

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0020	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Benzene	<0.0042		0.0042	0.00045	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Bromodichloromethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Bromoform	<0.0042		0.0042	0.00067	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Bromomethane	<0.0042		0.0042	0.00089	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
2-Butanone (MEK)	<0.0042		0.0042	0.00090	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Carbon disulfide	<0.0042		0.0042	0.00059	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Chlorobenzene	<0.0042		0.0042	0.00066	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Chloroethane	<0.0042	*	0.0042	0.00087	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Chloroform	<0.0042		0.0042	0.00077	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Chloromethane	<0.0042		0.0042	0.00068	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00061	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00047	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Dibromochloromethane	<0.0042		0.0042	0.00057	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,2-Dichloroethane	<0.0042		0.0042	0.00042	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,1-Dichloroethene	<0.0042		0.0042	0.00066	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,2-Dichloropropane	<0.0042		0.0042	0.00094	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00047	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Ethylbenzene	<0.0042		0.0042	0.00062	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
2-Hexanone	<0.0042		0.0042	0.00059	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Methylene Chloride	<0.0042		0.0042	0.0012	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00071	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00062	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Styrene	<0.0042		0.0042	0.00052	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Tetrachloroethene	<0.0042		0.0042	0.00079	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Toluene	<0.0042		0.0042	0.00081	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00080	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00056	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Trichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Vinyl chloride	<0.0042		0.0042	0.00058	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1
Xylenes, Total	<0.0083		0.0083	0.00058	mg/Kg	☼	02/23/12 14:15	02/29/12 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		67 - 120	02/23/12 14:15	02/29/12 07:02	1
Dibromofluoromethane	95		69 - 120	02/23/12 14:15	02/29/12 07:02	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 120	02/23/12 14:15	02/29/12 07:02	1
Toluene-d8 (Surr)	106		69 - 122	02/23/12 14:15	02/29/12 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Acenaphthylene	<0.033		0.033	0.0084	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B03**

**Lab Sample ID: 500-44440-19**

Date Collected: 02/23/12 14:15

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,4-Dimethylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Fluorene	<0.036		0.036	0.0084	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B03**

**Lab Sample ID: 500-44440-19**

**Date Collected: 02/23/12 14:15**

**Matrix: Solid**

**Date Received: 02/24/12 07:00**

**Percent Solids: 86.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Phenol	<0.18		0.18	0.058	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,4,5-Trichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	02/27/12 18:07	03/02/12 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		27 - 113	02/27/12 18:07	03/02/12 21:14	1
2-Fluorophenol	69		30 - 110	02/27/12 18:07	03/02/12 21:14	1
Nitrobenzene-d5	75		22 - 110	02/27/12 18:07	03/02/12 21:14	1
Phenol-d5	72		26 - 112	02/27/12 18:07	03/02/12 21:14	1
Terphenyl-d14	78		33 - 129	02/27/12 18:07	03/02/12 21:14	1
2,4,6-Tribromophenol	86		30 - 137	02/27/12 18:07	03/02/12 21:14	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:56	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 12:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 12:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 12:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:56	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 12:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:56	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 12:56	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:56	1
<b>Zinc</b>	<b>0.021</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 12:56	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 12:56	1
<b>Boron</b>	<b>0.48</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 12:56	1
<b>Manganese</b>	<b>0.039</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 12:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 12:56	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Arsenic</b>	<b>3.4</b>		0.54	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Barium</b>	<b>78</b>		0.54	0.064	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Beryllium</b>	<b>0.48</b>		0.21	0.016	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.027	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Chromium</b>	<b>9.2</b>		0.54	0.090	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Copper</b>	<b>9.2</b>		0.54	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Lead</b>	<b>27</b>		0.27	0.092	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Nickel</b>	<b>8.9</b>		0.54	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Selenium</b>	<b>0.36</b>	<b>J</b>	0.54	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Zinc</b>	<b>34</b>		1.1	0.37	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Sodium</b>	<b>140</b>		54	9.8	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Potassium</b>	<b>470</b>		27	3.0	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
<b>Calcium</b>	<b>2000</b>	<b>B</b>	11	1.9	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B03**

**Lab Sample ID: 500-44440-19**

Date Collected: 02/23/12 14:15

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 86.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9200		11	4.7	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
Vanadium	17		0.27	0.041	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
Magnesium	1500		5.4	1.0	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
Boron	1.2	J	2.7	0.50	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
Manganese	570	E	0.54	0.076	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1
Cobalt	7.2		0.27	0.028	mg/Kg	☼	02/29/12 16:45	03/03/12 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 10:06	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0053	mg/Kg	☼	02/28/12 13:45	02/29/12 11:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.62		0.200	0.200	SU			03/01/12 18:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B01**

**Lab Sample ID: 500-44440-22**

Date Collected: 02/23/12 15:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Bromoform	<0.0046		0.0046	0.00074	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Chloroethane	<0.0046	*	0.0046	0.00096	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
<b>Toluene</b>	<b>0.013</b>		0.0046	0.00089	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
<b>Trichloroethene</b>	<b>0.0031</b>	<b>J</b>	0.0046	0.00074	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1
Xylenes, Total	<0.0091		0.0091	0.00064	mg/Kg	☼	02/23/12 15:00	02/29/12 08:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		67 - 120	02/23/12 15:00	02/29/12 08:16	1
Dibromofluoromethane	89		69 - 120	02/23/12 15:00	02/29/12 08:16	1
1,2-Dichloroethane-d4 (Surr)	88		69 - 120	02/23/12 15:00	02/29/12 08:16	1
Toluene-d8 (Surr)	88		69 - 122	02/23/12 15:00	02/29/12 08:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Acenaphthylene	<0.035		0.035	0.0088	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
<b>Benzo[a]pyrene</b>	<b>0.0080</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B01**

**Lab Sample ID: 500-44440-22**

Date Collected: 02/23/12 15:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B01**

**Lab Sample ID: 500-44440-22**

Date Collected: 02/23/12 15:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/24/12 15:52	03/02/12 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		27 - 113	02/24/12 15:52	03/02/12 22:18	1
2-Fluorophenol	69		30 - 110	02/24/12 15:52	03/02/12 22:18	1
Nitrobenzene-d5	75		22 - 110	02/24/12 15:52	03/02/12 22:18	1
Phenol-d5	72		26 - 112	02/24/12 15:52	03/02/12 22:18	1
Terphenyl-d14	82		33 - 129	02/24/12 15:52	03/02/12 22:18	1
2,4,6-Tribromophenol	87		30 - 137	02/24/12 15:52	03/02/12 22:18	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:15	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.010	mg/L		03/05/12 16:20	03/06/12 13:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 13:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 13:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:15	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 13:15	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:15	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:15	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:15	1
<b>Zinc</b>	<b>0.17</b>		0.10	0.020	mg/L		03/05/12 16:20	03/06/12 13:15	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 13:15	1
<b>Boron</b>	<b>0.56</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 13:15	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:15	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Arsenic</b>	<b>4.6</b>		0.58	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Barium</b>	<b>19</b>		0.58	0.069	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Beryllium</b>	<b>0.34</b>		0.23	0.017	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Cadmium</b>	<b>0.27</b>		0.12	0.029	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Chromium</b>	<b>5.5</b>		0.58	0.096	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Copper</b>	<b>12</b>		0.58	0.16	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Lead</b>	<b>3.6</b>	<b>B</b>	0.29	0.099	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Nickel</b>	<b>7.4</b>		0.58	0.13	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Zinc</b>	<b>21</b>		1.2	0.40	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Sodium</b>	<b>290</b>		58	11	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Potassium</b>	<b>610</b>		29	3.3	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
<b>Calcium</b>	<b>96000</b>	<b>B E</b>	12	2.0	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-24-B01**

**Lab Sample ID: 500-44440-22**

Date Collected: 02/23/12 15:00

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 85.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8300		12	5.0	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Vanadium	13		0.29	0.044	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Magnesium	53000	B	5.8	1.1	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Boron	6.0		2.9	0.54	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Manganese	300		0.58	0.081	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1
Cobalt	2.8		0.29	0.030	mg/Kg	☼	02/29/12 09:15	03/01/12 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 10:15	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0053	mg/Kg	☼	02/28/12 13:45	02/29/12 11:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61		0.200	0.200	SU			03/01/12 18:12	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 16 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project No.: <u>500-44440</u> Sample Temp: <u>(28)(32)(35)</u> COC No: <u>1</u> of <u>3</u>	
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.			

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	PH	% Solids		Waste Characterization
1	915B-12-B04-1	2/23	8:20	S	✓	✓				✓	✓	✓	✓	✓	✓	0-4'
2	915B-12-B04-2	2/23	8:30	S	✓	✓				✓	✓	✓	✓	✓	✓	4-6.5'
3	915B-16-B01	2/23	8:45	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
4	915B-15-B01	2/23	9:10	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
5	915B-14-B01	2/23	9:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
6	915B-14-B01DUP	2/23	9:40	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
7	915B-13-B01	2/23	10:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-6.5'
8	915B-16-B04	2/23	10:30	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
9	915B-16-B06	2/23	10:40	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
10	915B-16-B09	2/23	11:00	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
11	915B-16-B07	2/23	10:50	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'
12	915B-16-B10	2/23	11:10	S	✓	✓				✓	✓	✓	✓	✓	✓	0-3.5'

Relinquished by: <i>[Signature]</i>	Date/Time: <u>2/23/12 16:00</u>	Received by: <i>[Signature]</i>	Date/Time: <u>2/23/12 11:00</u>
Relinquished by: <i>[Signature]</i>	Date/Time: <u>2/23/12 15:12</u>	Received by: <i>[Signature]</i>	Date/Time: <u>2/24/12 07:00</u>
Relinquished by: <i>[Signature]</i>	Date/Time: _____	Received by: _____	Date/Time: _____



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-16-BD01P	2/23	11:20	S	✓						✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓						✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓				✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓				✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓				✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓				✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓				✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓				✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓				✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓				✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:20	S	✓				✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓				✓		✓	✓	✓	✓		5-9.0'
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1600										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										





December 05, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13111396

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 11/27/2013 1:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)



**Client:** Andrews Engineering, Inc.

**Work Order:** 13111396

**Client Project:** IDOT2011-032

**Report Date:** 05-Dec-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13111396

Client Project: IDOT2011-032

Report Date: 05-Dec-13

Lab ID: 13111396-001

Client Sample ID: 915B-24-B03

Matrix: SOLID

Collection Date: 11/25/2013 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0357</b>	mg/L	1	12/04/2013 16:04	94262



## CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	Project Name: <u>Rt14 McHenry Co</u> Project No.: <u>IDOT 2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other <b>ACEI</b> Sampler: _____	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>1311396</u> Sample Temp.: <u>12.5</u> <b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other													
<b>Special Instructions:</b> See Table 2 for complete parameter lists and minimum reporting limits. * If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal. ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.																
<b>ANALYSES</b>																
Lab ID <u>1311396-201</u>	Sample ID <u>915B-24-B03</u>	Sample Date <u>11/25/13</u>	Sample Time <u>1255</u>	Matrix <u>S</u>	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization <u>SPLP MW/XX TLP MW</u>	Comments <u>0-3.5'</u>
Relinquished by:																
Date/Time: <u>11/25/13 1555</u>																
Relinquished by:																
Date/Time: <u>11-27-13 1300</u>																
Relinquished by:																
Date/Time: <u>11/27/13 13:00</u>																



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10200 - 10500 block of US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27732 Longitude: -88.40006

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.27732 Longitude: -88.40006Uncontaminated 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)]:

LOCATIONS 915B-25-B01 AND -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-25. SEE FIGURE 7 AND TABLE 5y OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44466-1 AND 500-44440-1

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


I, Steven Gobelman, P.E., L.P.G. (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.

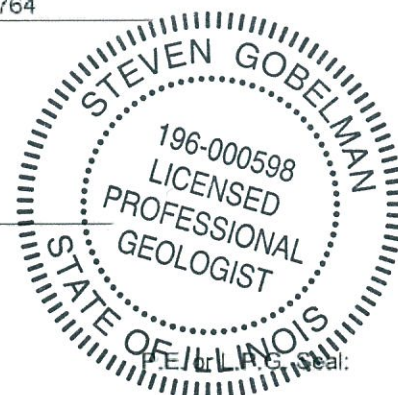
*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date: 7/8/14

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-25  
Agricultural Field**

Sample ID	915B-25-B01	915B-25-B03					
Sample Depth (ft)	0-6	0-6					
Sample Date	2/23/2012	2/24/2012					
PID	0	0					
Sample pH	7.84	8.94					
Matrix	Soil	Soil					
<b>No Contaminants of Concern Noted.</b>							

<sup>1</sup> Most Stringent MAC  
<sup>2</sup> Outside a Populated Area MAC  
<sup>3</sup> Populated non-Metropolitan Statistical Area MAC  
<sup>4</sup> Within Chicago Corporate Limits MAC  
<sup>5</sup> Metropolitan Statistical Area MAC  
<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only

# 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: 500-44466-1

TestAmerica Sample Delivery Group: 500-44466-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:14:38 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-25-B03**

**Lab Sample ID: 500-44466-3**

Date Collected: 02/24/12 10:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0020	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Benzene	<0.0041		0.0041	0.00044	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Bromodichloromethane	<0.0041		0.0041	0.00062	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Bromoform	<0.0041	*	0.0041	0.00066	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Bromomethane	<0.0041		0.0041	0.00087	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
2-Butanone (MEK)	<0.0041		0.0041	0.00088	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Carbon disulfide	<0.0041		0.0041	0.00058	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Chlorobenzene	<0.0041		0.0041	0.00064	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Chloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Chloroform	<0.0041		0.0041	0.00075	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Chloromethane	<0.0041		0.0041	0.00067	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00059	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00046	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Dibromochloromethane	<0.0041		0.0041	0.00056	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,2-Dichloroethane	<0.0041		0.0041	0.00041	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,1-Dichloroethene	<0.0041		0.0041	0.00064	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,2-Dichloropropane	<0.0041		0.0041	0.00092	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00046	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Ethylbenzene	<0.0041		0.0041	0.00061	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
2-Hexanone	<0.0041		0.0041	0.00058	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00069	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00061	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Styrene	<0.0041		0.0041	0.00051	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Tetrachloroethene	<0.0041		0.0041	0.00077	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Toluene	<0.0041		0.0041	0.00079	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00078	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00054	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Trichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Vinyl chloride	<0.0041		0.0041	0.00057	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1
Xylenes, Total	<0.0081		0.0081	0.00057	mg/Kg	☼	02/24/12 10:00	02/29/12 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		67 - 120	02/24/12 10:00	02/29/12 18:07	1
Dibromofluoromethane	98		69 - 120	02/24/12 10:00	02/29/12 18:07	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 120	02/24/12 10:00	02/29/12 18:07	1
Toluene-d8 (Surr)	108		69 - 122	02/24/12 10:00	02/29/12 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Acenaphthylene	<0.031		0.031	0.0079	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.034	0.0072	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Benzo[a]pyrene</b>	<b>0.016</b>	<b>J</b>	0.034	0.0062	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Benzo[b]fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.034	0.0067	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-25-B03**

**Lab Sample ID: 500-44466-3**

Date Collected: 02/24/12 10:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.019</b>	<b>J</b>	0.034	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Benzo[k]fluoranthene</b>	<b>0.0082</b>	<b>J</b>	0.034	0.0082	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.034	0.0077	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.034	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Hexachlorobenzene	<0.069		0.069	0.0068	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.012</b>	<b>J</b>	0.034	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-25-B03**

**Lab Sample ID: 500-44466-3**

Date Collected: 02/24/12 10:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.034	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		27 - 113	02/29/12 07:07	03/05/12 20:10	1
2-Fluorophenol	60		30 - 110	02/29/12 07:07	03/05/12 20:10	1
Nitrobenzene-d5	64		22 - 110	02/29/12 07:07	03/05/12 20:10	1
Phenol-d5	68		26 - 112	02/29/12 07:07	03/05/12 20:10	1
Terphenyl-d14	87		33 - 129	02/29/12 07:07	03/05/12 20:10	1
2,4,6-Tribromophenol	97		30 - 137	02/29/12 07:07	03/05/12 20:10	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:25	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.010	mg/L		03/06/12 09:00	03/06/12 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 17:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:25	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 17:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:25	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:25	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:25	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		03/06/12 09:00	03/06/12 17:25	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 17:25	1
<b>Boron</b>	<b>0.058</b>	<b>J B</b>	0.10	0.050	mg/L		03/06/12 09:00	03/06/12 17:25	1
<b>Manganese</b>	<b>0.56</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:25	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:25	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Arsenic</b>	<b>4.1</b>		0.53	0.12	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Barium</b>	<b>32</b>		0.53	0.064	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Beryllium</b>	<b>0.33</b>		0.21	0.016	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Cadmium</b>	<b>0.33</b>		0.11	0.026	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Chromium</b>	<b>12</b>		0.53	0.089	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Copper</b>	<b>16</b>		0.53	0.14	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Lead</b>	<b>110</b>		0.27	0.092	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Nickel</b>	<b>8.4</b>		0.53	0.12	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Thallium</b>	<b>0.15</b>	<b>J</b>	0.53	0.14	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Zinc</b>	<b>53</b>		1.1	0.37	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Sodium</b>	<b>1400</b>		53	9.8	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Potassium</b>	<b>590</b>		27	3.0	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
<b>Calcium</b>	<b>60000</b>	<b>E</b>	11	1.9	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-25-B03**

**Lab Sample ID: 500-44466-3**

Date Collected: 02/24/12 10:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 92.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9000		11	4.6	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
Vanadium	15		0.27	0.041	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
Magnesium	36000		5.3	1.0	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
Boron	4.3		2.7	0.50	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
Manganese	420		0.53	0.075	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1
Cobalt	3.9		0.27	0.028	mg/Kg	☼	03/01/12 17:40	03/03/12 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/08/12 12:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 12:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.016	0.0050	mg/Kg	☼	02/28/12 13:45	02/29/12 09:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.94		0.200	0.200	SU			03/06/12 13:13	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com		<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 1 of 2 <b>Lab Job No.:</b> 500-44466 <b>Sample Temp.:</b> 3.1									
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>													
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	BTEX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-25-B02	2/24/12	9:00	S	✓					✓	✓	✓	✓		0-6'
2	915B-25-B02 DUP	2/24	9:30	S	✓					✓	✓	✓	✓		0-6'
3	915B-25-B03	2/24	10:00	S	✓					✓	✓	✓	✓		0-6'
4	915B-28-B01	2/24	10:30	S	✓					✓	✓	✓	✓		0-6'
5	915B-29-B01	2/24	11:00	S	✓					✓	✓	✓	✓		0-10'
6	915B-27-B01	2/24	12:30	S	✓					✓	✓	✓	✓		0-5'
7	915B-29-B02	2/24	1:00	S	✓					✓	✓	✓	✓		0-10'
8	915B-30-B01	2/24	1:10	S	✓					✓	✓	✓	✓		0-6'
9	915B-30-B02	2/24	1:30	S	✓					✓	✓	✓	✓		0-6'
10	915B-36-B01	2/24	3:00	S	✓					✓	✓	✓	✓		0-6'
11	915B-29-B03	2/24	3:15	S	✓					✓	✓	✓	✓		0-10'
12	915B-29-B03 DUP	2/24	3:15	S	✓					✓	✓	✓	✓		0-10'
Relinquished by: <i>[Signature]</i>					Date/Time: 2/24/12 16:30	Received by: <i>[Signature]</i>					Date/Time: 2/24/12 16:30				
Relinquished by: <i>[Signature]</i>					Date/Time: 2/24/12 18:50	Received by: <i>[Signature]</i>					Date/Time: 2/25/12 07:00				
Relinquished by:					Date/Time:	Received by:					Date/Time:				



### CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011- 032 <b>TAT:</b> <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 2 <b>Lab Job No.:</b> 500-44466 <b>Sample Temp:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>														
Lab ID	Sample ID	Sample Date	Sample Time	Sample Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/*SPLP Metals	PH	% Solids	Waste Characterization	Comments
B	915B-37-B01	2/29/12	3:45	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0-6'
<b>Matrix Key:</b> W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other																
<b>Relinquished by:</b> [Signature] Date/Time: 2/29/12 16:30 <b>Relinquished by:</b> [Signature] Date/Time: 2/29/12 18:50 <b>Relinquished by:</b> [Signature] Date/Time: 2/25/12 0700																

# 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: 500-44440-1

TestAmerica Sample Delivery Group: 500-44440-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:11:23 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

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

### LINKS

Review your project  
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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-25-B01**

**Lab Sample ID: 500-44440-20**

Date Collected: 02/23/12 14:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0070		0.0045	0.0022	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Benzene	<0.0045		0.0045	0.00049	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Bromodichloromethane	<0.0045		0.0045	0.00069	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Bromoform	<0.0045		0.0045	0.00073	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Bromomethane	<0.0045		0.0045	0.00097	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
2-Butanone (MEK)	<0.0045		0.0045	0.00098	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Carbon disulfide	<0.0045		0.0045	0.00064	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Carbon tetrachloride	<0.0045		0.0045	0.00099	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Chlorobenzene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Chloroethane	<0.0045	*	0.0045	0.00095	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Chloroform	<0.0045		0.0045	0.00083	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Chloromethane	<0.0045		0.0045	0.00074	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00066	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00052	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Dibromochloromethane	<0.0045		0.0045	0.00062	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,2-Dichloroethane	<0.0045		0.0045	0.00046	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,1-Dichloroethene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,2-Dichloropropane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00052	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Ethylbenzene	<0.0045		0.0045	0.00068	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
2-Hexanone	<0.0045		0.0045	0.00064	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Methylene Chloride	<0.0045		0.0045	0.0013	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00077	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00068	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Styrene	<0.0045		0.0045	0.00057	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Tetrachloroethene	<0.0045		0.0045	0.00086	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Toluene	<0.0045		0.0045	0.00088	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Trichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Vinyl chloride	<0.0045		0.0045	0.00063	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1
Xylenes, Total	<0.0090		0.0090	0.00063	mg/Kg	☼	02/23/12 14:30	02/29/12 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		67 - 120	02/23/12 14:30	02/29/12 07:27	1
Dibromofluoromethane	90		69 - 120	02/23/12 14:30	02/29/12 07:27	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/23/12 14:30	02/29/12 07:27	1
Toluene-d8 (Surr)	96		69 - 122	02/23/12 14:30	02/29/12 07:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Acenaphthylene	<0.034		0.034	0.0088	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Benzo[a]anthracene	0.029	J	0.038	0.0080	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Benzo[a]pyrene	0.041		0.038	0.0069	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Benzo[b]fluoranthene	0.062		0.038	0.0074	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-25-B01**

**Lab Sample ID: 500-44440-20**

Date Collected: 02/23/12 14:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.057</b>		0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
<b>Benzo[k]fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0091	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
<b>Chrysene</b>	<b>0.038</b>		0.038	0.0086	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
<b>Fluoranthene</b>	<b>0.068</b>		0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.029</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-25-B01**

**Lab Sample ID: 500-44440-20**

Date Collected: 02/23/12 14:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
<b>Phenanthrene</b>	<b>0.022</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
<b>Pyrene</b>	<b>0.055</b>		0.038	0.014	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/27/12 18:07	03/05/12 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		27 - 113				02/27/12 18:07	03/05/12 23:59	1
2-Fluorophenol	56		30 - 110				02/27/12 18:07	03/05/12 23:59	1
Nitrobenzene-d5	63		22 - 110				02/27/12 18:07	03/05/12 23:59	1
Phenol-d5	62		26 - 112				02/27/12 18:07	03/05/12 23:59	1
Terphenyl-d14	85		33 - 129				02/27/12 18:07	03/05/12 23:59	1
2,4,6-Tribromophenol	89		30 - 137				02/27/12 18:07	03/05/12 23:59	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:02	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		03/05/12 16:20	03/06/12 13:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/05/12 16:20	03/06/12 13:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/05/12 16:20	03/06/12 13:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:02	1
Copper	<0.025		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:02	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0050	mg/L		03/05/12 16:20	03/06/12 13:02	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:02	1
Selenium	<0.050		0.050	0.010	mg/L		03/05/12 16:20	03/06/12 13:02	1
Silver	<0.025		0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:02	1
<b>Zinc</b>	<b>0.068</b>	<b>J</b>	0.10	0.020	mg/L		03/05/12 16:20	03/06/12 13:02	1
Iron	<0.20		0.20	0.20	mg/L		03/05/12 16:20	03/06/12 13:02	1
<b>Boron</b>	<b>0.56</b>		0.10	0.050	mg/L		03/05/12 16:20	03/06/12 13:02	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		03/05/12 16:20	03/06/12 13:02	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.0050	mg/L		03/05/12 16:20	03/06/12 13:02	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Arsenic</b>	<b>2.4</b>		0.55	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Barium</b>	<b>50</b>		0.55	0.066	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Beryllium</b>	<b>0.46</b>		0.22	0.016	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Cadmium</b>	<b>0.045</b>	<b>J</b>	0.11	0.027	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Chromium</b>	<b>11</b>		0.55	0.093	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Copper</b>	<b>9.6</b>		0.55	0.15	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Lead</b>	<b>15</b>		0.28	0.095	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Nickel</b>	<b>8.6</b>		0.55	0.12	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Selenium</b>	<b>0.22</b>	<b>J</b>	0.55	0.16	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Zinc</b>	<b>28</b>		1.1	0.38	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Sodium</b>	<b>1200</b>		55	10	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Potassium</b>	<b>500</b>		28	3.1	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
<b>Calcium</b>	<b>4900</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

**Client Sample ID: 915B-25-B01**

**Lab Sample ID: 500-44440-20**

Date Collected: 02/23/12 14:30

Matrix: Solid

Date Received: 02/24/12 07:00

Percent Solids: 86.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9000		11	4.8	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
Vanadium	16		0.28	0.042	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
Magnesium	3500		5.5	1.1	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
Boron	1.3	J	2.8	0.52	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
Manganese	200		0.55	0.078	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1
Cobalt	4.2		0.28	0.029	mg/Kg	☼	02/29/12 16:45	03/03/12 07:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/05/12 16:20	03/06/12 12:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/05/12 16:20	03/06/12 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/06/12 14:15	03/07/12 10:11	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0052	mg/Kg	☼	02/28/12 13:45	02/29/12 11:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			03/01/12 18:06	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44440-1  
SDG: 500-44440-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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.
F	Duplicate RPD exceeds the control limit
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
L	A negative instrument reading had an absolute value greater than the reporting limit

## General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
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**Project Name:** RTE 14  
**Project No.:** IDOT2011-032  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other

**COC No.:** 1 of 3  
**Lab Job No.:** 500-44440  
**Sample Temp:** (28)(32)(35)

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-12-B04-1	2/23	8:20	S	✓	✓					✓	✓	✓	✓		0-4'
2	915B-12-B04-2	2/23	8:30	S	✓	✓					✓	✓	✓	✓		4-6.5'
3	915B-16-B01	2/23	8:45	S	✓	✓					✓	✓	✓	✓		0-6.5'
4	915B-15-B01	2/23	9:10	S	✓	✓					✓	✓	✓	✓		0-6.5'
5	915B-14-B01	2/23	9:30	S	✓	✓					✓	✓	✓	✓		0-6.5'
6	915B-14-B01DUP	2/23	9:40	S	✓	✓					✓	✓	✓	✓		0-6.5'
7	915B-13-B01	2/23	10:00	S	✓	✓					✓	✓	✓	✓		0-6.5'
8	915B-16-B04	2/23	10:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
9	915B-16-B06	2/23	10:40	S	✓	✓					✓	✓	✓	✓		0-3.5'
10	915B-16-B09	2/23	11:00	S	✓	✓					✓	✓	✓	✓		0-3.5'
11	915B-16-B07	2/23	10:50	S	✓	✓					✓	✓	✓	✓		0-3.5'
12	915B-16-B10	2/23	11:10	S	✓	✓					✓	✓	✓	✓		0-3.5'

**Relinquished by:** [Signature]  
 Date/Time: 2/23/12 16:00

**Relinquished by:** [Signature]  
 Date/Time: 2/23/12 18:12

**Relinquished by:** [Signature]  
 Date/Time: [Blank]

**Received by:** [Signature]  
 Date/Time: 2-23-12/11:00

**Received by:** [Signature]  
 Date/Time: 2/24/12 07:00

**Received by:** [Signature]  
 Date/Time: [Blank]





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		<b>Project Name:</b> RIE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 3 <b>Lab Job No.:</b> 500-44440 <b>Sample Temp.:</b>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	915B-16-BD01P	2/23	11:20	S	✓	✓					✓	✓	✓	✓		0-3.5'
14	915B-16-B11	2/23	11:30	S	✓	✓					✓	✓	✓	✓		0-3.5'
15	915B-20-B01	2/23	12:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
16	915B-20-G01	2/23	12:30	W	✓	✓			✓		✓	✓	✓	✓		5.2'
17	TRIP BLANK	2/23	—	W	✓	✓			✓		✓	✓	✓	✓		—
18	915B-20-B02	2/23	1:30	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
19	915B-24-B03	2/23	2:15	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
20	915B-25-B01	2/23	2:30	S	✓	✓			✓		✓	✓	✓	✓		0-6'
21	915B-24-B02	2/23	2:45	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
22	915B-24-B01	2/23	3:00	S	✓	✓			✓		✓	✓	✓	✓		0-3.5'
23	915B-22-B02H	2/23	3:20	S	✓	✓			✓		✓	✓	✓	✓		0-5.0'
24	915B-22-B02-2	2/23	3:30	S	✓	✓			✓		✓	✓	✓	✓		5-9.0'
Relinquished by: <i>[Signature]</i>		Date/Time: 2/23/12 16:00		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1600										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										
Relinquished by: <i>[Signature]</i>		Date/Time: 2-23-12/1815		Received by: <i>[Signature]</i>		Date/Time: 2-23-12/1815										



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com			<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com			<b>Project Name:</b> RT214 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other			<b>GOC No.:</b> 3 of 3 <b>Lab Job No.:</b> SDO-444AD <b>Sample Temp.:</b>							
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.						<b>ANALYSES</b>										
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
25	915B-22-B01-1	2/23	3:45	S	✓	✓			✓		✓	✓	✓	✓		0-51
26	915B-22-B01-2	2/23	4:00	S	✓	✓			✓		✓	✓	✓	✓		5-9.0
Relinquished by:						Received by:						Date/Time: 2/23/16	Date/Time: 2/23/16			
Relinquished by:						Received by:						Date/Time: 2/23/15	Date/Time: 2/23/15			
Relinquished by:						Received by:						Date/Time:	Date/Time:			





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

3701 Doty Road

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27704 Longitude: -88.39995

(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: 1110955100 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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27704 Longitude: -88.39995

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):

LOCATIONS 915B-26-B01 TO -B03, -B05, -B06, -B08, -B09 AND -B11 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-26. SEE FIGURES 6 AND 7 AND TABLE 5z OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44388-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13091085

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
\_\_\_\_\_  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

  
\_\_\_\_\_  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-26**

**Contegra Memorial Medical Center**

Sample ID	915B-26-B01-1	915B-26-B01-2	915B-26-B02-1	915B-26-B02-2	915B-26-B03-1	915B-26-B03-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	5-10	0-5	5-10	0-5	5-10						
Sample Date	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012						
PID	0	0	0	0	0	0						
Sample pH	8.55	8.09	8.15	8.21	6.95	6.62						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (mg/kg)</b>							11.3	NA	11.3	NA	13	NA
Arsenic	7	5.7	6.4	6	4	2.5						

Sample ID	915B-26-B05-1	915B-26-B05-1 DUF	915B-26-B06-1	915B-26-B06-2	915B-26-B06-1	915B-26-B06-2	915B-26-B08-1	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	0-5	5-10	0-5	5-10	0-5						
Sample Date	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012						
PID	0	0	0	0	0	0	0						
Sample pH	7.54	7.33	8.58	6.91	6.91	7.32	7.62						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (mg/kg)</b>								11.3	NA	11.3	NA	13	NA
Arsenic	6.1	8.6	3.1	5.7	6.9	5.5							

Sample ID	915B-26-B08-2	915B-26-B09-1	915B-26-B09-2	915B-26-B11-1	915B-26-B11-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	5-10	0-5	5-10	0-5	5-10						
Sample Date	2/21/2012	2/21/2012	2/21/2012	2/21/2012	2/21/2012						
PID	0	0	0	0	0						
Sample pH	8.05	7.87	8	7.27	7.89						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (mg/kg)</b>											
Arsenic	4.2	4.7	4.4	6.4	12	11.3	NA	11.3	NA	13	NA

# 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: 500-44388-1

TestAmerica Sample Delivery Group: 500-44388-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 3:57:36 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

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

### LINKS

Review your project  
results through

**TotalAccess**

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-1**

**Lab Sample ID: 500-44388-4**

Date Collected: 02/21/12 10:15

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Benzene	<0.0047		0.0047	0.00050	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Bromoform	<0.0047		0.0047	0.00076	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Carbon disulfide	<0.0047		0.0047	0.00066	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Dibromochloromethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
2-Hexanone	<0.0047		0.0047	0.00066	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00079	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Vinyl chloride	<0.0047		0.0047	0.00065	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1
Xylenes, Total	<0.0093		0.0093	0.00065	mg/Kg	☼	02/21/12 10:15	02/27/12 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		67 - 120	02/21/12 10:15	02/27/12 13:30	1
Dibromofluoromethane	93		69 - 120	02/21/12 10:15	02/27/12 13:30	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/21/12 10:15	02/27/12 13:30	1
Toluene-d8 (Surr)	90		69 - 122	02/21/12 10:15	02/27/12 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Acenaphthylene	<0.036		0.036	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Benzo[a]pyrene	<0.040	*	0.040	0.0074	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-1**

**Lab Sample ID: 500-44388-4**

**Date Collected: 02/21/12 10:15**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 81.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Hexachlorobenzene	<0.081		0.081	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-1**

**Lab Sample ID: 500-44388-4**

Date Collected: 02/21/12 10:15

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		27 - 113	02/23/12 07:14	02/28/12 18:02	1
2-Fluorophenol	63		30 - 110	02/23/12 07:14	02/28/12 18:02	1
Nitrobenzene-d5	67		22 - 110	02/23/12 07:14	02/28/12 18:02	1
Phenol-d5	59		26 - 112	02/23/12 07:14	02/28/12 18:02	1
Terphenyl-d14	90		33 - 129	02/23/12 07:14	02/28/12 18:02	1
2,4,6-Tribromophenol	77		30 - 137	02/23/12 07:14	02/28/12 18:02	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:53	1
<b>Barium</b>	<b>0.56</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 10:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 10:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 10:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:53	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 10:53	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:53	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 10:53	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:53	1
<b>Zinc</b>	<b>0.026 J</b>		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 10:53	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 10:53	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 10:53	1
<b>Manganese</b>	<b>0.96</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 10:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 10:53	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Arsenic</b>	<b>7.0</b>		0.56	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Barium</b>	<b>65</b>		0.56	0.066	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Beryllium</b>	<b>0.54</b>		0.22	0.016	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Chromium</b>	<b>12</b>		0.56	0.093	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Copper</b>	<b>11</b>		0.56	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Lead</b>	<b>8.1</b>		0.28	0.096	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Nickel</b>	<b>11</b>		0.56	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Thallium</b>	<b>0.27 J</b>		0.56	0.14	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Zinc</b>	<b>29</b>		1.1	0.38	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Sodium</b>	<b>1500</b>		56	10	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Potassium</b>	<b>600</b>		28	3.2	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
<b>Calcium</b>	<b>12000 B</b>		11	2.0	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
 SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-1**

**Lab Sample ID: 500-44388-4**

Date Collected: 02/21/12 10:15

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 81.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14000		11	4.8	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Vanadium	21		0.28	0.042	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Magnesium	5500		5.6	1.1	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Boron	1.3	J	2.8	0.52	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Manganese	290		0.56	0.079	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1
Cobalt	5.4		0.28	0.029	mg/Kg	☼	02/23/12 16:50	02/29/12 01:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:34	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0056	mg/Kg	☼	02/23/12 11:00	02/23/12 12:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.55		0.200	0.200	SU			02/28/12 18:22	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-1**

**Lab Sample ID: 500-44388-5**

Date Collected: 02/21/12 10:45

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Bromoform	<0.0046		0.0046	0.00075	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Carbon disulfide	<0.0046		0.0046	0.00066	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
2-Hexanone	<0.0046		0.0046	0.00066	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Toluene	<0.0046		0.0046	0.00090	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
<b>Trichloroethene</b>	<b>0.0030</b>	<b>J</b>	0.0046	0.00075	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1
Xylenes, Total	<0.0092		0.0092	0.00065	mg/Kg	☼	02/21/12 10:45	02/27/12 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		67 - 120	02/21/12 10:45	02/27/12 13:55	1
Dibromofluoromethane	92		69 - 120	02/21/12 10:45	02/27/12 13:55	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/21/12 10:45	02/27/12 13:55	1
Toluene-d8 (Surr)	91		69 - 122	02/21/12 10:45	02/27/12 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
<b>Benzo[a]anthracene</b>	<b>0.0098</b>	<b>J</b>	0.039	0.0083	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
<b>Benzo[a]pyrene</b>	<b>0.012</b>	<b>J *</b>	0.039	0.0072	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
<b>Benzo[b]fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.039	0.0077	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-1**

**Lab Sample ID: 500-44388-5**

**Date Collected: 02/21/12 10:45**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0089	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
<b>Fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-1**

**Lab Sample ID: 500-44388-5**

Date Collected: 02/21/12 10:45

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
<b>Pyrene</b>	<b>0.016</b>	<b>J</b>	0.039	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		27 - 113	02/23/12 07:14	02/28/12 18:25	1
2-Fluorophenol	59		30 - 110	02/23/12 07:14	02/28/12 18:25	1
Nitrobenzene-d5	58		22 - 110	02/23/12 07:14	02/28/12 18:25	1
Phenol-d5	56		26 - 112	02/23/12 07:14	02/28/12 18:25	1
Terphenyl-d14	68		33 - 129	02/23/12 07:14	02/28/12 18:25	1
2,4,6-Tribromophenol	65		30 - 137	02/23/12 07:14	02/28/12 18:25	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:14	1
<b>Barium</b>	<b>0.54</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 11:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 11:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 11:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:14	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:14	1
<b>Lead</b>	<b>0.0094</b>		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 11:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:14	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:14	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:14	1
<b>Zinc</b>	<b>0.066</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 11:14	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 11:14	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 11:14	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:14	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:14	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Arsenic</b>	<b>6.4</b>		0.59	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Barium</b>	<b>48</b>		0.59	0.071	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Beryllium</b>	<b>0.62</b>		0.24	0.017	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Cadmium	<0.12	L	0.12	0.029	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Chromium</b>	<b>14</b>		0.59	0.099	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Copper</b>	<b>16</b>		0.59	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Lead</b>	<b>17</b>		0.30	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Nickel</b>	<b>14</b>		0.59	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Thallium</b>	<b>0.23</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Zinc</b>	<b>39</b>		1.2	0.41	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Sodium</b>	<b>1900</b>		59	11	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Potassium</b>	<b>820</b>		30	3.4	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
<b>Calcium</b>	<b>3000</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-1**

**Lab Sample ID: 500-44388-5**

Date Collected: 02/21/12 10:45

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 82.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		12	5.2	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Vanadium	23		0.30	0.045	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Magnesium	3100		5.9	1.2	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Boron	1.6	J	3.0	0.55	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Manganese	400		0.59	0.084	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1
Cobalt	6.5		0.30	0.031	mg/Kg	☼	02/23/12 16:50	02/29/12 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:37	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0058	mg/Kg	☼	02/23/12 11:00	02/23/12 12:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			02/28/12 18:26	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-2**

**Lab Sample ID: 500-44388-6**

Date Collected: 02/21/12 10:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0024	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Bromodichloromethane	<0.0048		0.0048	0.00074	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Bromoform	<0.0048		0.0048	0.00079	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Carbon disulfide	<0.0048		0.0048	0.00069	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Carbon tetrachloride	<0.0048		0.0048	0.0011	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Chlorobenzene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Chloroform	<0.0048		0.0048	0.00089	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00071	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Dibromochloromethane	<0.0048		0.0048	0.00067	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Ethylbenzene	<0.0048		0.0048	0.00073	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
2-Hexanone	<0.0048		0.0048	0.00069	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Methylene Chloride	<0.0048		0.0048	0.0014	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00082	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00073	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Styrene	<0.0048		0.0048	0.00061	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Tetrachloroethene	<0.0048		0.0048	0.00092	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Toluene	<0.0048		0.0048	0.00094	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00069	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
<b>1,1,1-Trichloroethane</b>	<b>0.0062</b>		0.0048	0.00093	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
<b>Trichloroethene</b>	<b>0.0099</b>		0.0048	0.00079	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Vinyl chloride	<0.0048		0.0048	0.00068	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/21/12 10:30	02/27/12 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/21/12 10:30	02/27/12 14:45	1
Dibromofluoromethane	92		69 - 120	02/21/12 10:30	02/27/12 14:45	1
1,2-Dichloroethane-d4 (Surr)	96		69 - 120	02/21/12 10:30	02/27/12 14:45	1
Toluene-d8 (Surr)	91		69 - 122	02/21/12 10:30	02/27/12 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Acenaphthylene	<0.037		0.037	0.0095	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Benzo[a]pyrene	<0.041	*	0.041	0.0075	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-2**

**Lab Sample ID: 500-44388-6**

**Date Collected: 02/21/12 10:30**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-2**

**Lab Sample ID: 500-44388-6**

**Date Collected: 02/21/12 10:30**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Phenol	<0.21		0.21	0.066	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		27 - 113	02/23/12 07:14	02/28/12 18:49	1
2-Fluorophenol	80		30 - 110	02/23/12 07:14	02/28/12 18:49	1
Nitrobenzene-d5	76		22 - 110	02/23/12 07:14	02/28/12 18:49	1
Phenol-d5	72		26 - 112	02/23/12 07:14	02/28/12 18:49	1
Terphenyl-d14	92		33 - 129	02/23/12 07:14	02/28/12 18:49	1
2,4,6-Tribromophenol	86		30 - 137	02/23/12 07:14	02/28/12 18:49	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:20	1
<b>Barium</b>	<b>0.69</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 11:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 11:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 11:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:20	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:20	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 11:20	1
<b>Nickel</b>	<b>0.024 J</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:20	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:20	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:20	1
<b>Zinc</b>	<b>0.022 J</b>		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 11:20	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 11:20	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 11:20	1
<b>Manganese</b>	<b>0.91</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:20	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:20	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Arsenic</b>	<b>5.7</b>		0.61	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Barium</b>	<b>76</b>		0.61	0.073	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Beryllium</b>	<b>0.62</b>		0.24	0.018	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Cadmium	<0.12		0.12	0.030	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Chromium</b>	<b>14</b>		0.61	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Copper</b>	<b>16</b>		0.61	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Lead</b>	<b>8.5</b>		0.31	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Nickel</b>	<b>19</b>		0.61	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Selenium	<0.61		0.61	0.18	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Thallium</b>	<b>0.32 J</b>		0.61	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Zinc</b>	<b>36</b>		1.2	0.42	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Sodium</b>	<b>1100</b>		61	11	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Potassium</b>	<b>920</b>		31	3.5	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
<b>Calcium</b>	<b>21000 B</b>		12	2.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B01-2**

**Lab Sample ID: 500-44388-6**

Date Collected: 02/21/12 10:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 79.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14000		12	5.3	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Vanadium	23		0.31	0.046	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Magnesium	14000		6.1	1.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Boron	2.7	J	3.1	0.57	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Manganese	490		0.61	0.086	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1
Cobalt	7.2		0.31	0.032	mg/Kg	☼	02/23/12 16:50	02/29/12 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:39	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0056	mg/Kg	☼	02/23/12 11:00	02/23/12 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			02/28/12 18:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-2**

**Lab Sample ID: 500-44388-7**

Date Collected: 02/21/12 11:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0026	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Benzene	<0.0053		0.0053	0.00058	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Bromodichloromethane	<0.0053		0.0053	0.00081	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Bromoform	<0.0053		0.0053	0.00087	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Bromomethane	<0.0053		0.0053	0.0011	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
2-Butanone (MEK)	<0.0053		0.0053	0.0012	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Carbon disulfide	<0.0053		0.0053	0.00076	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Carbon tetrachloride	<0.0053		0.0053	0.0012	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Chlorobenzene	<0.0053		0.0053	0.00085	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Chloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Chloroform	<0.0053		0.0053	0.00098	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Chloromethane	<0.0053		0.0053	0.00088	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00078	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00061	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Dibromochloromethane	<0.0053		0.0053	0.00074	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,1-Dichloroethane	<0.0053		0.0053	0.00085	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,2-Dichloroethane	<0.0053		0.0053	0.00055	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,2-Dichloropropane	<0.0053		0.0053	0.0012	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00061	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Ethylbenzene	<0.0053		0.0053	0.00080	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
2-Hexanone	<0.0053		0.0053	0.00076	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Methylene Chloride	<0.0053		0.0053	0.0015	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.00091	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00080	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Styrene	<0.0053		0.0053	0.00067	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.00073	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Tetrachloroethene	<0.0053		0.0053	0.0010	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Toluene	<0.0053		0.0053	0.0010	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00076	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.0012	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.0010	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Vinyl chloride	<0.0053		0.0053	0.00075	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1
Xylenes, Total	<0.011		0.011	0.00075	mg/Kg	☼	02/21/12 11:00	02/27/12 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		67 - 120	02/21/12 11:00	02/27/12 15:10	1
Dibromofluoromethane	90		69 - 120	02/21/12 11:00	02/27/12 15:10	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 120	02/21/12 11:00	02/27/12 15:10	1
Toluene-d8 (Surr)	89		69 - 122	02/21/12 11:00	02/27/12 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Acenaphthylene	<0.038		0.038	0.0096	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Benzo[a]pyrene	<0.041	*	0.041	0.0076	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Benzo[b]fluoranthene	<0.041		0.041	0.0081	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-2**

**Lab Sample ID: 500-44388-7**

**Date Collected: 02/21/12 11:00**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 77.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Chrysene	<0.041		0.041	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Fluorene	<0.041		0.041	0.0095	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-2**

**Lab Sample ID: 500-44388-7**

Date Collected: 02/21/12 11:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Phenol	<0.21		0.21	0.066	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	38		27 - 113	02/23/12 07:14	02/28/12 19:13	1
2-Fluorophenol	43		30 - 110	02/23/12 07:14	02/28/12 19:13	1
Nitrobenzene-d5	39		22 - 110	02/23/12 07:14	02/28/12 19:13	1
Phenol-d5	39		26 - 112	02/23/12 07:14	02/28/12 19:13	1
Terphenyl-d14	55		33 - 129	02/23/12 07:14	02/28/12 19:13	1
2,4,6-Tribromophenol	49		30 - 137	02/23/12 07:14	02/28/12 19:13	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:26	1
<b>Barium</b>	<b>0.61</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 11:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 11:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 11:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:26	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 11:26	1
<b>Nickel</b>	<b>0.011 J</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:26	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:26	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:26	1
<b>Zinc</b>	<b>0.036 J</b>		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 11:26	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 11:26	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 11:26	1
<b>Manganese</b>	<b>0.50</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:26	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Arsenic</b>	<b>6.0</b>		0.62	0.14	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Barium</b>	<b>93</b>		0.62	0.074	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Beryllium</b>	<b>0.62</b>		0.25	0.018	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
Cadmium	<0.12		0.12	0.031	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Chromium</b>	<b>14</b>		0.62	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Copper</b>	<b>16</b>		0.62	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Lead</b>	<b>9.4</b>		0.31	0.11	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Nickel</b>	<b>18</b>		0.62	0.14	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Selenium</b>	<b>0.39 J</b>		0.62	0.18	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Thallium</b>	<b>0.21 J</b>		0.62	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Zinc</b>	<b>38</b>		1.2	0.43	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Sodium</b>	<b>1300</b>		62	11	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Potassium</b>	<b>1100</b>		31	3.5	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
<b>Calcium</b>	<b>21000 B</b>		12	2.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B02-2**

**Lab Sample ID: 500-44388-7**

Date Collected: 02/21/12 11:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 77.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14000		12	5.4	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
Vanadium	23		0.31	0.047	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
Magnesium	15000		6.2	1.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
Boron	3.0	J	3.1	0.58	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
Manganese	480		0.62	0.088	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1
Cobalt	7.0		0.31	0.033	mg/Kg	☼	02/23/12 16:50	02/29/12 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:42	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0060	mg/Kg	☼	02/23/12 11:00	02/23/12 12:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU			02/28/12 18:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-1**

**Lab Sample ID: 500-44388-8**

Date Collected: 02/21/12 11:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0023	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Bromoform	<0.0048		0.0048	0.00078	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00081	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
<b>Trichloroethene</b>	<b>0.0025</b>	<b>J</b>	0.0048	0.00078	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/21/12 11:20	02/27/12 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/21/12 11:20	02/27/12 15:35	1
Dibromofluoromethane	93		69 - 120	02/21/12 11:20	02/27/12 15:35	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 120	02/21/12 11:20	02/27/12 15:35	1
Toluene-d8 (Surr)	88		69 - 122	02/21/12 11:20	02/27/12 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Acenaphthylene	<0.036		0.036	0.0090	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Benzo[a]pyrene	<0.039	*	0.039	0.0072	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-1**

**Lab Sample ID: 500-44388-8**

**Date Collected: 02/21/12 11:20**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-1**

**Lab Sample ID: 500-44388-8**

**Date Collected: 02/21/12 11:20**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		27 - 113	02/23/12 07:14	02/28/12 19:37	1
2-Fluorophenol	50		30 - 110	02/23/12 07:14	02/28/12 19:37	1
Nitrobenzene-d5	50		22 - 110	02/23/12 07:14	02/28/12 19:37	1
Phenol-d5	46		26 - 112	02/23/12 07:14	02/28/12 19:37	1
Terphenyl-d14	64		33 - 129	02/23/12 07:14	02/28/12 19:37	1
2,4,6-Tribromophenol	57		30 - 137	02/23/12 07:14	02/28/12 19:37	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:32	1
<b>Barium</b>	<b>0.56</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 11:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 11:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 11:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:32	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 11:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:32	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:32	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:32	1
<b>Zinc</b>	<b>0.025 J</b>		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 11:32	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 11:32	1
<b>Boron</b>	<b>1.9</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 11:32	1
<b>Manganese</b>	<b>0.012 J</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:32	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Arsenic</b>	<b>4.0</b>		0.60	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Barium</b>	<b>120</b>		0.60	0.072	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Beryllium</b>	<b>0.66</b>		0.24	0.018	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Cadmium	<0.12 L		0.12	0.030	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Chromium</b>	<b>14</b>		0.60	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Copper</b>	<b>13</b>		0.60	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Lead</b>	<b>14</b>		0.30	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Nickel</b>	<b>24</b>		0.60	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Thallium</b>	<b>0.87</b>		0.60	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Zinc</b>	<b>33</b>		1.2	0.41	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Sodium</b>	<b>180</b>		60	11	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Potassium</b>	<b>690</b>		30	3.4	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
<b>Calcium</b>	<b>2100 B</b>		12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-1**

**Lab Sample ID: 500-44388-8**

Date Collected: 02/21/12 11:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		12	5.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Vanadium	21		0.30	0.046	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Magnesium	2400		6.0	1.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Boron	0.99	J	3.0	0.56	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Manganese	1200	E	0.60	0.085	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1
Cobalt	13		0.30	0.032	mg/Kg	☼	02/23/12 16:50	02/29/12 02:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:45	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.020	0.0060	mg/Kg	☼	02/23/12 11:00	02/23/12 12:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.95		0.200	0.200	SU			02/28/12 18:39	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-2**

**Lab Sample ID: 500-44388-9**

Date Collected: 02/21/12 11:40

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0021	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Benzene	<0.0043		0.0043	0.00047	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Bromodichloromethane	<0.0043		0.0043	0.00066	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Bromoform	<0.0043		0.0043	0.00070	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Bromomethane	<0.0043		0.0043	0.00093	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
2-Butanone (MEK)	<0.0043		0.0043	0.00094	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Carbon disulfide	<0.0043		0.0043	0.00062	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Carbon tetrachloride	<0.0043		0.0043	0.00095	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Chlorobenzene	<0.0043		0.0043	0.00069	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Chloroethane	<0.0043		0.0043	0.00091	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Chloroform	<0.0043		0.0043	0.00080	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Chloromethane	<0.0043		0.0043	0.00071	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00063	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00049	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Dibromochloromethane	<0.0043		0.0043	0.00060	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,2-Dichloroethane	<0.0043		0.0043	0.00044	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,2-Dichloropropane	<0.0043		0.0043	0.00098	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00049	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Ethylbenzene	<0.0043		0.0043	0.00065	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
2-Hexanone	<0.0043		0.0043	0.00062	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00074	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00065	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Styrene	<0.0043		0.0043	0.00055	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Tetrachloroethene	<0.0043		0.0043	0.00082	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Toluene	<0.0043		0.0043	0.00084	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00062	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Vinyl chloride	<0.0043		0.0043	0.00061	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1
Xylenes, Total	<0.0087		0.0087	0.00061	mg/Kg	☼	02/21/12 11:40	02/27/12 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/21/12 11:40	02/27/12 16:00	1
Dibromofluoromethane	90		69 - 120	02/21/12 11:40	02/27/12 16:00	1
1,2-Dichloroethane-d4 (Surr)	90		69 - 120	02/21/12 11:40	02/27/12 16:00	1
Toluene-d8 (Surr)	88		69 - 122	02/21/12 11:40	02/27/12 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Acenaphthylene	<0.033		0.033	0.0085	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Benzo[a]pyrene	<0.037	*	0.037	0.0067	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-2**

**Lab Sample ID: 500-44388-9**

**Date Collected: 02/21/12 11:40**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 86.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-2**

**Lab Sample ID: 500-44388-9**

Date Collected: 02/21/12 11:40

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		27 - 113	02/23/12 07:14	02/28/12 20:01	1
2-Fluorophenol	87		30 - 110	02/23/12 07:14	02/28/12 20:01	1
Nitrobenzene-d5	90		22 - 110	02/23/12 07:14	02/28/12 20:01	1
Phenol-d5	79		26 - 112	02/23/12 07:14	02/28/12 20:01	1
Terphenyl-d14	103		33 - 129	02/23/12 07:14	02/28/12 20:01	1
2,4,6-Tribromophenol	89		30 - 137	02/23/12 07:14	02/28/12 20:01	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:39	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 11:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 11:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 11:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:39	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 11:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:39	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:39	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:39	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 11:39	1
<b>Iron</b>	<b>0.32</b>		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 11:39	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 11:39	1
<b>Manganese</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Arsenic</b>	<b>2.5</b>		0.55	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Barium</b>	<b>56</b>		0.55	0.066	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Beryllium</b>	<b>0.45</b>		0.22	0.016	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Cadmium	<0.11	L	0.11	0.027	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Chromium</b>	<b>10</b>		0.55	0.093	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Copper</b>	<b>10</b>		0.55	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Lead</b>	<b>6.2</b>		0.28	0.095	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Nickel</b>	<b>10</b>		0.55	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.55	0.14	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Zinc</b>	<b>25</b>		1.1	0.38	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Sodium</b>	<b>140</b>		55	10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Potassium</b>	<b>640</b>		28	3.1	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
<b>Calcium</b>	<b>1600</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B03-2**

**Lab Sample ID: 500-44388-9**

Date Collected: 02/21/12 11:40

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 86.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000		11	4.8	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Vanadium	15		0.28	0.042	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Magnesium	1800		5.5	1.1	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Boron	1.0	J	2.8	0.52	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Manganese	300		0.55	0.078	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1
Cobalt	7.3		0.28	0.029	mg/Kg	☼	02/23/12 16:50	02/29/12 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 13:48	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0055	mg/Kg	☼	02/23/12 11:00	02/23/12 12:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.62		0.200	0.200	SU			02/28/12 18:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1**

**Lab Sample ID: 500-44388-12**

Date Collected: 02/21/12 13:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0023	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Bromoform	<0.0048		0.0048	0.00077	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Chlorobenzene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Chloromethane	<0.0048		0.0048	0.00078	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00054	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,1-Dichloroethene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00054	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00081	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Trichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1
Xylenes, Total	<0.0095		0.0095	0.00067	mg/Kg	☼	02/21/12 13:00	02/27/12 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		67 - 120	02/21/12 13:00	02/27/12 17:15	1
Dibromofluoromethane	93		69 - 120	02/21/12 13:00	02/27/12 17:15	1
1,2-Dichloroethane-d4 (Surr)	97		69 - 120	02/21/12 13:00	02/27/12 17:15	1
Toluene-d8 (Surr)	89		69 - 122	02/21/12 13:00	02/27/12 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Acenaphthylene	<0.037		0.037	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Anthracene	<0.040		0.040	0.0096	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Benzo[a]pyrene	<0.040	*	0.040	0.0074	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1**

**Lab Sample ID: 500-44388-12**

**Date Collected: 02/21/12 13:00**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 80.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.099	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Di-n-octyl phthalate	<0.20		0.20	0.083	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1**

**Lab Sample ID: 500-44388-12**

**Date Collected: 02/21/12 13:00**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 80.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	36		27 - 113	02/23/12 07:14	02/28/12 21:12	1
2-Fluorophenol	38		30 - 110	02/23/12 07:14	02/28/12 21:12	1
Nitrobenzene-d5	36		22 - 110	02/23/12 07:14	02/28/12 21:12	1
Phenol-d5	34		26 - 112	02/23/12 07:14	02/28/12 21:12	1
Terphenyl-d14	53		33 - 129	02/23/12 07:14	02/28/12 21:12	1
2,4,6-Tribromophenol	43		30 - 137	02/23/12 07:14	02/28/12 21:12	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:58	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 11:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 11:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 11:58	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:58	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 11:58	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:58	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 11:58	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:58	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 11:58	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 11:58	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 11:58	1
<b>Manganese</b>	<b>0.038</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 11:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 11:58	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Arsenic</b>	<b>6.1</b>		0.60	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Barium</b>	<b>80</b>		0.60	0.071	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Beryllium</b>	<b>0.64</b>		0.24	0.018	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Cadmium	<0.12	L	0.12	0.030	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Chromium</b>	<b>14</b>		0.60	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Copper</b>	<b>14</b>		0.60	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Lead</b>	<b>9.4</b>		0.30	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Nickel</b>	<b>12</b>		0.60	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Thallium</b>	<b>0.26</b>	<b>J</b>	0.60	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Zinc</b>	<b>29</b>		1.2	0.41	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Sodium</b>	<b>160</b>		60	11	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Potassium</b>	<b>600</b>		30	3.4	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
<b>Calcium</b>	<b>2200</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
 SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1**

**Lab Sample ID: 500-44388-12**

Date Collected: 02/21/12 13:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		12	5.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Vanadium	23		0.30	0.046	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Magnesium	2600		6.0	1.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Boron	0.98	J	3.0	0.56	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Manganese	280		0.60	0.085	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1
Cobalt	6.1		0.30	0.032	mg/Kg	☼	02/23/12 16:50	02/29/12 02:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	^	0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 14:02	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0061	mg/Kg	☼	02/23/12 11:00	02/23/12 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			02/28/12 19:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-2**

**Lab Sample ID: 500-44388-13**

Date Collected: 02/21/12 13:50

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Bromoform	<0.0044		0.0044	0.00072	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Bromomethane	<0.0044		0.0044	0.00095	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
2-Butanone (MEK)	<0.0044		0.0044	0.00095	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Carbon disulfide	<0.0044		0.0044	0.00063	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Carbon tetrachloride	<0.0044		0.0044	0.00096	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Chlorobenzene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Chloroethane	<0.0044		0.0044	0.00093	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00065	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,2-Dichloropropane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
2-Hexanone	<0.0044		0.0044	0.00063	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Styrene	<0.0044		0.0044	0.00056	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Tetrachloroethene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Toluene	<0.0044		0.0044	0.00086	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1
Xylenes, Total	<0.0088		0.0088	0.00062	mg/Kg	☼	02/21/12 13:50	02/27/12 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/21/12 13:50	02/27/12 17:40	1
Dibromofluoromethane	92		69 - 120	02/21/12 13:50	02/27/12 17:40	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 120	02/21/12 13:50	02/27/12 17:40	1
Toluene-d8 (Surr)	89		69 - 122	02/21/12 13:50	02/27/12 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Acenaphthylene	<0.037		0.037	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Benzo[a]pyrene	<0.041	*	0.041	0.0075	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-2**

**Lab Sample ID: 500-44388-13**

**Date Collected: 02/21/12 13:50**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-2**

**Lab Sample ID: 500-44388-13**

**Date Collected: 02/21/12 13:50**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 80.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		27 - 113	02/23/12 07:14	02/28/12 21:36	1
2-Fluorophenol	69		30 - 110	02/23/12 07:14	02/28/12 21:36	1
Nitrobenzene-d5	66		22 - 110	02/23/12 07:14	02/28/12 21:36	1
Phenol-d5	62		26 - 112	02/23/12 07:14	02/28/12 21:36	1
Terphenyl-d14	88		33 - 129	02/23/12 07:14	02/28/12 21:36	1
2,4,6-Tribromophenol	79		30 - 137	02/23/12 07:14	02/28/12 21:36	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:05	1
<b>Barium</b>	<b>0.64</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 12:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 12:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 12:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:05	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:05	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 12:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:05	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:05	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:05	1
<b>Zinc</b>	<b>0.022 J</b>		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 12:05	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 12:05	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 12:05	1
<b>Manganese</b>	<b>0.75</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:05	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Arsenic</b>	<b>3.1</b>		0.61	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Barium</b>	<b>74</b>		0.61	0.072	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Beryllium</b>	<b>0.53</b>		0.24	0.018	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Cadmium</b>	<b>0.032 J</b>		0.12	0.030	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Chromium</b>	<b>11</b>		0.61	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Copper</b>	<b>14</b>		0.61	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Lead</b>	<b>6.4</b>		0.30	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Nickel</b>	<b>11</b>		0.61	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Selenium	<0.61		0.61	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Thallium	<0.61		0.61	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Zinc</b>	<b>28</b>		1.2	0.42	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Sodium</b>	<b>250</b>		61	11	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Potassium</b>	<b>840</b>		30	3.4	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
<b>Calcium</b>	<b>43000 B</b>		12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-2**

**Lab Sample ID: 500-44388-13**

Date Collected: 02/21/12 13:50

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		12	5.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Vanadium	22		0.30	0.046	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Magnesium	26000		6.1	1.2	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Boron	3.2		3.0	0.56	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Manganese	300		0.61	0.085	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1
Cobalt	4.9		0.30	0.032	mg/Kg	☼	02/23/12 16:50	02/29/12 02:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	^	0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 14:05	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0058	mg/Kg	☼	02/23/12 11:00	02/23/12 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.58		0.200	0.200	SU			02/28/12 19:04	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1 DUP**

**Lab Sample ID: 500-44388-14**

Date Collected: 02/21/12 13:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0047	0.0023	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Bromodichloromethane	<0.0047		0.0047	0.00072	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Bromoform	<0.0047		0.0047	0.00077	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Chlorobenzene	<0.0047		0.0047	0.00075	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Chloroform	<0.0047		0.0047	0.00087	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Chloromethane	<0.0047		0.0047	0.00078	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Ethylbenzene	<0.0047		0.0047	0.00071	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00071	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Styrene	<0.0047		0.0047	0.00060	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Tetrachloroethene	<0.0047		0.0047	0.00090	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Toluene	<0.0047		0.0047	0.00092	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1
Xylenes, Total	<0.0095		0.0095	0.00066	mg/Kg	☼	02/21/12 13:30	02/27/12 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/21/12 13:30	02/27/12 18:05	1
Dibromofluoromethane	92		69 - 120	02/21/12 13:30	02/27/12 18:05	1
1,2-Dichloroethane-d4 (Surr)	98		69 - 120	02/21/12 13:30	02/27/12 18:05	1
Toluene-d8 (Surr)	88		69 - 122	02/21/12 13:30	02/27/12 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Benzo[a]pyrene	<0.039	*	0.039	0.0071	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1 DUP**

**Lab Sample ID: 500-44388-14**

**Date Collected: 02/21/12 13:30**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 82.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1 DUP**

**Lab Sample ID: 500-44388-14**

Date Collected: 02/21/12 13:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		27 - 113	02/23/12 07:14	02/28/12 22:00	1
2-Fluorophenol	51		30 - 110	02/23/12 07:14	02/28/12 22:00	1
Nitrobenzene-d5	53		22 - 110	02/23/12 07:14	02/28/12 22:00	1
Phenol-d5	45		26 - 112	02/23/12 07:14	02/28/12 22:00	1
Terphenyl-d14	68		33 - 129	02/23/12 07:14	02/28/12 22:00	1
2,4,6-Tribromophenol	58		30 - 137	02/23/12 07:14	02/28/12 22:00	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:11	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 12:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 12:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 12:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:11	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 12:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:11	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:11	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:11	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 12:11	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 12:11	1
<b>Boron</b>	<b>1.8</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 12:11	1
<b>Manganese</b>	<b>0.030</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:11	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Arsenic</b>	<b>8.6</b>		0.57	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Barium</b>	<b>97</b>		0.57	0.068	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Beryllium</b>	<b>0.68</b>		0.23	0.017	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Cadmium	<0.11	L	0.11	0.028	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Chromium</b>	<b>14</b>		0.57	0.096	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Copper</b>	<b>9.0</b>		0.57	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Lead</b>	<b>12</b>		0.29	0.099	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Nickel</b>	<b>9.8</b>		0.57	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Thallium</b>	<b>0.33</b>	<b>J</b>	0.57	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Zinc</b>	<b>29</b>		1.1	0.39	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Sodium</b>	<b>130</b>		57	10	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Potassium</b>	<b>570</b>		29	3.2	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
<b>Calcium</b>	<b>1900</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B05-1 DUP**

**Lab Sample ID: 500-44388-14**

Date Collected: 02/21/12 13:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 82.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000		11	5.0	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Vanadium	28		0.29	0.043	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Magnesium	2400		5.7	1.1	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Boron	0.83	J	2.9	0.53	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Manganese	540		0.57	0.081	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1
Cobalt	10		0.29	0.030	mg/Kg	☼	02/23/12 16:50	02/29/12 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	^	0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 14:08	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.018	0.0055	mg/Kg	☼	02/23/12 11:00	02/23/12 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.33		0.200	0.200	SU			02/28/12 19:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-1**

**Lab Sample ID: 500-44388-15**

Date Collected: 02/21/12 14:15

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0022	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Benzene	<0.0045		0.0045	0.00048	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Bromodichloromethane	<0.0045		0.0045	0.00068	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Bromoform	<0.0045		0.0045	0.00072	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Bromomethane	<0.0045		0.0045	0.00096	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
2-Butanone (MEK)	<0.0045		0.0045	0.00097	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Carbon disulfide	<0.0045		0.0045	0.00063	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Chlorobenzene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Chloroethane	<0.0045		0.0045	0.00094	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Chloroform	<0.0045		0.0045	0.00082	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Chloromethane	<0.0045		0.0045	0.00073	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00065	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00051	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Dibromochloromethane	<0.0045		0.0045	0.00062	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,2-Dichloroethane	<0.0045		0.0045	0.00046	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,1-Dichloroethene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,2-Dichloropropane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00051	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Ethylbenzene	<0.0045		0.0045	0.00067	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
2-Hexanone	<0.0045		0.0045	0.00063	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Methylene Chloride	<0.0045		0.0045	0.0013	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00076	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00067	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Styrene	<0.0045		0.0045	0.00056	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Tetrachloroethene	<0.0045		0.0045	0.00085	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Toluene	<0.0045		0.0045	0.00087	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00060	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Trichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Vinyl chloride	<0.0045		0.0045	0.00063	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1
Xylenes, Total	<0.0089		0.0089	0.00063	mg/Kg	☼	02/21/12 14:15	02/27/12 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		67 - 120	02/21/12 14:15	02/27/12 18:30	1
Dibromofluoromethane	92		69 - 120	02/21/12 14:15	02/27/12 18:30	1
1,2-Dichloroethane-d4 (Surr)	96		69 - 120	02/21/12 14:15	02/27/12 18:30	1
Toluene-d8 (Surr)	90		69 - 122	02/21/12 14:15	02/27/12 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Acenaphthylene	<0.034		0.034	0.0086	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Benzo[a]pyrene	<0.037	*	0.037	0.0068	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-1**

**Lab Sample ID: 500-44388-15**

**Date Collected: 02/21/12 14:15**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 84.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-1**

**Lab Sample ID: 500-44388-15**

Date Collected: 02/21/12 14:15

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/23/12 07:14	02/28/12 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		27 - 113	02/23/12 07:14	02/28/12 22:24	1
2-Fluorophenol	65		30 - 110	02/23/12 07:14	02/28/12 22:24	1
Nitrobenzene-d5	63		22 - 110	02/23/12 07:14	02/28/12 22:24	1
Phenol-d5	58		26 - 112	02/23/12 07:14	02/28/12 22:24	1
Terphenyl-d14	81		33 - 129	02/23/12 07:14	02/28/12 22:24	1
2,4,6-Tribromophenol	68		30 - 137	02/23/12 07:14	02/28/12 22:24	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:32	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 12:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 12:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 12:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:32	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 12:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:32	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:32	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:32	1
Zinc	<0.10		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 12:32	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 12:32	1
Boron	<0.10		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 12:32	1
<b>Manganese</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:32	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Arsenic</b>	<b>5.7</b>		0.56	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Barium</b>	<b>89</b>		0.56	0.067	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Beryllium</b>	<b>0.66</b>		0.22	0.016	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Cadmium	<0.11	L	0.11	0.028	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Chromium</b>	<b>13</b>		0.56	0.094	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Copper</b>	<b>8.9</b>		0.56	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Lead</b>	<b>10</b>		0.28	0.096	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Nickel</b>	<b>12</b>		0.56	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Thallium</b>	<b>0.52</b>	<b>J</b>	0.56	0.14	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Zinc</b>	<b>32</b>		1.1	0.38	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Sodium</b>	<b>130</b>		56	10	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Potassium</b>	<b>660</b>		28	3.2	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
<b>Calcium</b>	<b>1500</b>	<b>B</b>	11	2.0	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-1**

**Lab Sample ID: 500-44388-15**

Date Collected: 02/21/12 14:15

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 84.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14000		11	4.9	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Vanadium	24		0.28	0.043	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Magnesium	2400		5.6	1.1	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Boron	1.2	J	2.8	0.52	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Manganese	530		0.56	0.079	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1
Cobalt	9.5		0.28	0.029	mg/Kg	☼	02/23/12 16:50	02/29/12 03:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	^	0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 14:10	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.0057	mg/Kg	☼	02/23/12 11:00	02/23/12 13:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.91		0.200	0.200	SU			02/28/12 19:13	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-2**

**Lab Sample ID: 500-44388-16**

Date Collected: 02/21/12 14:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Bromoform	<0.0049		0.0049	0.00080	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Chloroform	<0.0049		0.0049	0.00091	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Tetrachloroethene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Toluene	<0.0049		0.0049	0.00096	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1
Xylenes, Total	<0.0099		0.0099	0.00069	mg/Kg	☼	02/21/12 14:30	02/27/12 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		67 - 120	02/21/12 14:30	02/27/12 18:54	1
Dibromofluoromethane	92		69 - 120	02/21/12 14:30	02/27/12 18:54	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 120	02/21/12 14:30	02/27/12 18:54	1
Toluene-d8 (Surr)	87		69 - 122	02/21/12 14:30	02/27/12 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Acenaphthylene	<0.037		0.037	0.0094	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Anthracene	<0.041		0.041	0.0096	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Benzo[a]anthracene	<0.041		0.041	0.0085	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Benzo[a]pyrene	<0.041	*	0.041	0.0074	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Benzo[b]fluoranthene	<0.041		0.041	0.0079	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-2**

**Lab Sample ID: 500-44388-16**

Date Collected: 02/21/12 14:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Benzo[k]fluoranthene	<0.041		0.041	0.0097	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.060	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Carbazole	<0.21		0.21	0.057	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2-Chlorophenol	<0.21		0.21	0.058	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Chrysene	<0.041		0.041	0.0092	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Di-n-butyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Hexachlorobutadiene	<0.21		0.21	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Hexachloroethane	<0.21		0.21	0.043	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Isophorone	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
3 & 4 Methylphenol	<0.21		0.21	0.077	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2-Nitroaniline	<0.21		0.21	0.073	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
N-Nitrosodiphenylamine	<0.21		0.21	0.055	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-2**

**Lab Sample ID: 500-44388-16**

Date Collected: 02/21/12 14:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	02/23/12 07:14	02/28/12 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		27 - 113	02/23/12 07:14	02/28/12 22:48	1
2-Fluorophenol	83		30 - 110	02/23/12 07:14	02/28/12 22:48	1
Nitrobenzene-d5	72		22 - 110	02/23/12 07:14	02/28/12 22:48	1
Phenol-d5	75		26 - 112	02/23/12 07:14	02/28/12 22:48	1
Terphenyl-d14	93		33 - 129	02/23/12 07:14	02/28/12 22:48	1
2,4,6-Tribromophenol	94		30 - 137	02/23/12 07:14	02/28/12 22:48	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:38	1
<b>Barium</b>	<b>0.70</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 12:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 12:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 12:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:38	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 12:38	1
<b>Nickel</b>	<b>0.012 J</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:38	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:38	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:38	1
Zinc	<0.10		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 12:38	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 12:38	1
<b>Boron</b>	<b>0.059 J</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 12:38	1
<b>Manganese</b>	<b>0.37</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:38	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:38	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Arsenic</b>	<b>6.9</b>		0.58	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Barium</b>	<b>92</b>		0.58	0.069	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Beryllium</b>	<b>0.62</b>		0.23	0.017	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Cadmium	<0.12 L		0.12	0.029	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Chromium</b>	<b>14</b>		0.58	0.097	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Copper</b>	<b>16</b>		0.58	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Lead</b>	<b>8.0</b>		0.29	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Nickel</b>	<b>20</b>		0.58	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Thallium</b>	<b>0.60</b>		0.58	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Zinc</b>	<b>33</b>		1.2	0.40	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Sodium</b>	<b>150</b>		58	11	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Potassium</b>	<b>630</b>		29	3.3	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
<b>Calcium</b>	<b>5000 B</b>		12	2.1	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B06-2**

**Lab Sample ID: 500-44388-16**

Date Collected: 02/21/12 14:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 80.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000		12	5.1	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Vanadium	23		0.29	0.044	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Magnesium	4200		5.8	1.1	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Boron	1.6	J	2.9	0.54	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Manganese	610	E	0.58	0.082	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1
Cobalt	6.8		0.29	0.031	mg/Kg	☼	02/23/12 16:50	02/29/12 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	^	0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 14:13	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.0060	mg/Kg	☼	02/23/12 11:00	02/23/12 13:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.32		0.200	0.200	SU			02/28/12 19:17	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-1**

**Lab Sample ID: 500-44388-19**

Date Collected: 02/21/12 15:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Bromoform	<0.0050	*	0.0050	0.00081	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Chloroform	<0.0050		0.0050	0.00092	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Chloromethane	<0.0050		0.0050	0.00082	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
2-Hexanone	<0.0050	*	0.0050	0.00071	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
4-Methyl-2-pentanone (MIBK)	<0.0050	*	0.0050	0.00085	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Tetrachloroethene	<0.0050		0.0050	0.00095	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Toluene	<0.0050		0.0050	0.00097	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
<b>Trichloroethene</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.00081	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/21/12 15:00	02/27/12 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/21/12 15:00	02/27/12 14:01	1
Dibromofluoromethane	98		69 - 120	02/21/12 15:00	02/27/12 14:01	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 120	02/21/12 15:00	02/27/12 14:01	1
Toluene-d8 (Surr)	108		69 - 122	02/21/12 15:00	02/27/12 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Benzo[a]pyrene	<0.039	*	0.039	0.0072	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-1**

**Lab Sample ID: 500-44388-19**

**Date Collected: 02/21/12 15:00**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Hexachlorobenzene	<0.079		0.079	0.0078	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-1**

**Lab Sample ID: 500-44388-19**

**Date Collected: 02/21/12 15:00**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/23/12 07:14	02/29/12 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	48		27 - 113	02/23/12 07:14	02/29/12 13:05	1
2-Fluorophenol	50		30 - 110	02/23/12 07:14	02/29/12 13:05	1
Nitrobenzene-d5	46		22 - 110	02/23/12 07:14	02/29/12 13:05	1
Phenol-d5	50		26 - 112	02/23/12 07:14	02/29/12 13:05	1
Terphenyl-d14	71		33 - 129	02/23/12 07:14	02/29/12 13:05	1
2,4,6-Tribromophenol	67		30 - 137	02/23/12 07:14	02/29/12 13:05	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:56	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 12:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 12:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 12:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:56	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 12:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:56	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 12:56	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:56	1
<b>Zinc</b>	<b>0.026</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 12:56	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 12:56	1
<b>Boron</b>	<b>1.6</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 12:56	1
<b>Manganese</b>	<b>0.059</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 12:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 12:56	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<6.0		6.0	0.79	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Arsenic</b>	<b>5.5</b>		3.0	0.65	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Barium</b>	<b>17</b>		3.0	0.36	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Beryllium</b>	<b>0.43</b>	<b>J</b>	1.2	0.088	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Cadmium	<0.60		0.60	0.15	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Chromium</b>	<b>5.5</b>		3.0	0.50	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Copper</b>	<b>13</b>		3.0	0.81	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Lead</b>	<b>5.1</b>		1.5	0.51	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Nickel</b>	<b>9.1</b>		3.0	0.65	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Selenium	<3.0		3.0	0.86	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Silver	<1.5		1.5	0.18	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Thallium	<3.0		3.0	0.77	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Zinc</b>	<b>23</b>		6.0	2.0	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Sodium</b>	<b>250</b>	<b>J</b>	300	55	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Potassium</b>	<b>770</b>		150	17	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
<b>Calcium</b>	<b>130000</b>	<b>B</b>	60	11	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-1**

**Lab Sample ID: 500-44388-19**

Date Collected: 02/21/12 15:00

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 81.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		60	26	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Vanadium	15		1.5	0.23	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Magnesium	81000		30	5.8	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Boron	7.2	J	15	2.8	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Manganese	370		3.0	0.42	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5
Cobalt	3.3		1.5	0.16	mg/Kg	☼	02/23/12 16:50	02/29/12 07:48	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	^	0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 14:21	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.019	0.0059	mg/Kg	☼	02/23/12 11:00	02/23/12 13:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.62		0.200	0.200	SU			02/28/12 19:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-2**

**Lab Sample ID: 500-44388-20**

**Date Collected: 02/21/12 15:10**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 97.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0021	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Benzene	<0.0042		0.0042	0.00045	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Bromodichloromethane	<0.0042		0.0042	0.00064	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Bromoform	<0.0042	*	0.0042	0.00068	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Bromomethane	<0.0042		0.0042	0.00090	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
2-Butanone (MEK)	<0.0042		0.0042	0.00091	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Carbon disulfide	<0.0042		0.0042	0.00060	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Carbon tetrachloride	<0.0042		0.0042	0.00092	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Chlorobenzene	<0.0042		0.0042	0.00066	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Chloroethane	<0.0042		0.0042	0.00088	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Chloroform	<0.0042		0.0042	0.00077	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Chloromethane	<0.0042		0.0042	0.00069	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00061	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00048	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Dibromochloromethane	<0.0042		0.0042	0.00058	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,2-Dichloroethane	<0.0042		0.0042	0.00043	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,1-Dichloroethene	<0.0042		0.0042	0.00066	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,2-Dichloropropane	<0.0042		0.0042	0.00095	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00048	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Ethylbenzene	<0.0042		0.0042	0.00063	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
2-Hexanone	<0.0042	*	0.0042	0.00060	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Methylene Chloride	<0.0042		0.0042	0.0012	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
4-Methyl-2-pentanone (MIBK)	<0.0042	*	0.0042	0.00071	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00063	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Styrene	<0.0042		0.0042	0.00053	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Tetrachloroethene	<0.0042		0.0042	0.00080	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Toluene	<0.0042		0.0042	0.00081	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00056	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
<b>Trichloroethene</b>	<b>0.0029</b>	<b>J</b>	0.0042	0.00068	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Vinyl chloride	<0.0042		0.0042	0.00059	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1
Xylenes, Total	<0.0084		0.0084	0.00059	mg/Kg	☼	02/21/12 15:10	02/27/12 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		67 - 120	02/21/12 15:10	02/27/12 14:27	1
Dibromofluoromethane	103		69 - 120	02/21/12 15:10	02/27/12 14:27	1
1,2-Dichloroethane-d4 (Surr)	105		69 - 120	02/21/12 15:10	02/27/12 14:27	1
Toluene-d8 (Surr)	108		69 - 122	02/21/12 15:10	02/27/12 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Benzo[a]anthracene	<0.033		0.033	0.0069	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
<b>Benzo[a]pyrene</b>	<b>0.0062</b>	<b>J *</b>	0.033	0.0060	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
<b>Benzo[b]fluoranthene</b>	<b>0.0081</b>	<b>J</b>	0.033	0.0064	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-2**

**Lab Sample ID: 500-44388-20**

**Date Collected: 02/21/12 15:10**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 97.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.036	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Butyl benzyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Carbazole	<0.17		0.17	0.046	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Chrysene	<0.033		0.033	0.0074	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0092	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Fluorene	<0.033		0.033	0.0075	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
3 & 4 Methylphenol	<0.17		0.17	0.062	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2-Nitroaniline	<0.17		0.17	0.059	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-2**

**Lab Sample ID: 500-44388-20**

Date Collected: 02/21/12 15:10

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Phenol	<0.17		0.17	0.052	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,4,5-Trichlorophenol	<0.33		0.33	0.094	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1
2,4,6-Trichlorophenol	<0.33		0.33	0.041	mg/Kg	☼	02/23/12 07:14	02/29/12 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		27 - 113	02/23/12 07:14	02/29/12 13:29	1
2-Fluorophenol	89		30 - 110	02/23/12 07:14	02/29/12 13:29	1
Nitrobenzene-d5	93		22 - 110	02/23/12 07:14	02/29/12 13:29	1
Phenol-d5	83		26 - 112	02/23/12 07:14	02/29/12 13:29	1
Terphenyl-d14	104		33 - 129	02/23/12 07:14	02/29/12 13:29	1
2,4,6-Tribromophenol	103		30 - 137	02/23/12 07:14	02/29/12 13:29	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 13:03	1
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 13:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 13:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 13:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:03	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 13:03	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:03	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 13:03	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 13:03	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 13:03	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 13:03	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 13:03	1
<b>Manganese</b>	<b>3.5</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:03	1
<b>Cobalt</b>	<b>0.025</b>		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 13:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Arsenic</b>	<b>4.2</b>		0.48	0.10	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Barium</b>	<b>18</b>		0.48	0.057	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Beryllium</b>	<b>0.27</b>		0.19	0.014	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Cadmium</b>	<b>0.024</b>	<b>J</b>	0.096	0.024	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Chromium</b>	<b>4.9</b>		0.48	0.080	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Copper</b>	<b>14</b>		0.48	0.13	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Lead</b>	<b>5.5</b>		0.24	0.083	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Nickel</b>	<b>8.2</b>		0.48	0.11	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Selenium	<0.48	L	0.48	0.14	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Thallium	<0.48		0.48	0.12	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Zinc</b>	<b>19</b>		0.96	0.33	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Sodium</b>	<b>160</b>		48	8.8	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Potassium</b>	<b>310</b>		24	2.7	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
<b>Calcium</b>	<b>55000</b>	<b>B E</b>	9.6	1.7	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
 SDG: 500-44388-1

**Client Sample ID: 915B-26-B08-2**

**Lab Sample ID: 500-44388-20**

Date Collected: 02/21/12 15:10

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 97.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000		9.6	4.2	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Vanadium	12		0.24	0.036	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Magnesium	34000		4.8	0.93	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Boron	2.9		2.4	0.45	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Manganese	290		0.48	0.068	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1
Cobalt	3.3		0.24	0.025	mg/Kg	☼	02/23/12 16:50	02/29/12 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020	^	0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 14:24	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0056	J	0.015	0.0046	mg/Kg	☼	02/23/12 11:00	02/23/12 13:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			02/28/12 19:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-1**

**Lab Sample ID: 500-44388-21**

Date Collected: 02/21/12 15:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0059		0.0059	0.0029	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Benzene	<0.0059		0.0059	0.00064	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Bromodichloromethane	<0.0059		0.0059	0.00089	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Bromoform	<0.0059	*	0.0059	0.00095	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Bromomethane	<0.0059		0.0059	0.0013	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
2-Butanone (MEK)	<0.0059		0.0059	0.0013	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Carbon disulfide	<0.0059		0.0059	0.00084	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Carbon tetrachloride	<0.0059		0.0059	0.0013	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Chlorobenzene	<0.0059		0.0059	0.00093	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Chloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Chloroform	<0.0059		0.0059	0.0011	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Chloromethane	<0.0059		0.0059	0.00096	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.00086	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.00067	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Dibromochloromethane	<0.0059		0.0059	0.00081	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,1-Dichloroethane	<0.0059		0.0059	0.00093	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,2-Dichloroethane	<0.0059		0.0059	0.00060	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,1-Dichloroethene	<0.0059		0.0059	0.00093	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,2-Dichloropropane	<0.0059		0.0059	0.0013	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,3-Dichloropropene, Total	<0.0059		0.0059	0.00067	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Ethylbenzene	<0.0059		0.0059	0.00088	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
2-Hexanone	<0.0059	*	0.0059	0.00084	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Methylene Chloride	<0.0059		0.0059	0.0016	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
4-Methyl-2-pentanone (MIBK)	<0.0059	*	0.0059	0.0010	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Methyl tert-butyl ether	<0.0059		0.0059	0.00088	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Styrene	<0.0059		0.0059	0.00074	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,1,1,2-Tetrachloroethane	<0.0059		0.0059	0.00080	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Tetrachloroethene	<0.0059		0.0059	0.0011	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Toluene	<0.0059		0.0059	0.0011	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.00084	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0013	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.0011	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.00079	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
<b>Trichloroethene</b>	<b>0.0028</b>	<b>J</b>	0.0059	0.00095	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Vinyl chloride	<0.0059		0.0059	0.00082	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1
Xylenes, Total	<0.012		0.012	0.00082	mg/Kg	☼	02/21/12 15:20	02/27/12 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		67 - 120	02/21/12 15:20	02/27/12 14:53	1
Dibromofluoromethane	101		69 - 120	02/21/12 15:20	02/27/12 14:53	1
1,2-Dichloroethane-d4 (Surr)	102		69 - 120	02/21/12 15:20	02/27/12 14:53	1
Toluene-d8 (Surr)	112		69 - 122	02/21/12 15:20	02/27/12 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-1**

**Lab Sample ID: 500-44388-21**

**Date Collected: 02/21/12 15:20**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 83.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-1**

**Lab Sample ID: 500-44388-21**

Date Collected: 02/21/12 15:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		27 - 113	02/22/12 18:02	02/29/12 13:53	1
2-Fluorophenol	88		30 - 110	02/22/12 18:02	02/29/12 13:53	1
Nitrobenzene-d5	88		22 - 110	02/22/12 18:02	02/29/12 13:53	1
Phenol-d5	79		26 - 112	02/22/12 18:02	02/29/12 13:53	1
Terphenyl-d14	102		33 - 129	02/22/12 18:02	02/29/12 13:53	1
2,4,6-Tribromophenol	83		30 - 137	02/22/12 18:02	02/29/12 13:53	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 13:21	1
<b>Barium</b>	<b>0.52</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 13:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 13:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 13:21	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:21	1
<b>Copper</b>	<b>0.015 J</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 13:21	1
<b>Nickel</b>	<b>0.014 J</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:21	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 13:21	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 13:21	1
<b>Zinc</b>	<b>0.026 J</b>		0.10	0.020	mg/L		03/02/12 15:30	03/05/12 13:21	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 13:21	1
<b>Boron</b>	<b>1.7</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 13:21	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:21	1
<b>Cobalt</b>	<b>0.0069 J</b>		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 13:21	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Arsenic</b>	<b>4.7</b>		0.57	0.12	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Barium</b>	<b>25</b>		0.57	0.068	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Beryllium</b>	<b>0.39</b>		0.23	0.017	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.028	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Chromium</b>	<b>7.1</b>		0.57	0.096	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Copper</b>	<b>14</b>		0.57	0.16	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Lead</b>	<b>5.4</b>		0.29	0.099	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Nickel</b>	<b>8.4</b>		0.57	0.13	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Zinc</b>	<b>23</b>		1.1	0.39	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Sodium</b>	<b>230</b>		57	10	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Potassium</b>	<b>470</b>		29	3.2	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
<b>Calcium</b>	<b>57000 B</b>		11	2.0	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
 SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-1**

**Lab Sample ID: 500-44388-21**

Date Collected: 02/21/12 15:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 83.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000		11	5.0	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Vanadium	17		0.29	0.044	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Magnesium	35000	B	5.7	1.1	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Boron	3.7		2.9	0.53	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Manganese	330		0.57	0.081	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1
Cobalt	3.9		0.29	0.030	mg/Kg	☼	02/23/12 16:23	02/24/12 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 12:18	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.0059	mg/Kg	☼	02/24/12 08:00	02/24/12 10:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			02/28/12 19:38	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-2**

**Lab Sample ID: 500-44388-22**

Date Collected: 02/21/12 15:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0057		0.0052	0.0026	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Benzene	<0.0052		0.0052	0.00057	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Bromodichloromethane	<0.0052		0.0052	0.00080	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Bromoform	<0.0052	*	0.0052	0.00085	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Bromomethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
2-Butanone (MEK)	<0.0052		0.0052	0.0011	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Carbon disulfide	<0.0052		0.0052	0.00074	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Chlorobenzene	<0.0052		0.0052	0.00083	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Chloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Chloroform	<0.0052		0.0052	0.00096	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Chloromethane	<0.0052		0.0052	0.00086	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00077	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00060	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Dibromochloromethane	<0.0052		0.0052	0.00072	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,2-Dichloroethane	<0.0052		0.0052	0.00053	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,1-Dichloroethene	<0.0052		0.0052	0.00083	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,2-Dichloropropane	<0.0052		0.0052	0.0012	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00060	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Ethylbenzene	<0.0052		0.0052	0.00079	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
2-Hexanone	<0.0052	*	0.0052	0.00074	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Methylene Chloride	<0.0052		0.0052	0.0015	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0052	*	0.0052	0.00089	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00079	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Styrene	<0.0052		0.0052	0.00066	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Tetrachloroethene	<0.0052		0.0052	0.0010	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Toluene	<0.0052		0.0052	0.0010	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Trichloroethene	0.0025	J	0.0052	0.00085	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Vinyl chloride	<0.0052		0.0052	0.00073	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1
Xylenes, Total	<0.010		0.010	0.00073	mg/Kg	☼	02/21/12 15:30	02/27/12 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/21/12 15:30	02/27/12 15:20	1
Dibromofluoromethane	100		69 - 120	02/21/12 15:30	02/27/12 15:20	1
1,2-Dichloroethane-d4 (Surr)	103		69 - 120	02/21/12 15:30	02/27/12 15:20	1
Toluene-d8 (Surr)	109		69 - 122	02/21/12 15:30	02/27/12 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Acenaphthylene	<0.031		0.031	0.0078	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Benzo[a]anthracene	<0.034		0.034	0.0071	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-2**

**Lab Sample ID: 500-44388-22**

**Date Collected: 02/21/12 15:30**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 96.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Chrysene	<0.034		0.034	0.0077	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0095	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.082	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,4-Dinitrophenol	<0.68		0.68	0.17	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Hexachlorobenzene	<0.068		0.068	0.0067	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.011	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Naphthalene	<0.034		0.034	0.0065	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-2**

**Lab Sample ID: 500-44388-22**

**Date Collected: 02/21/12 15:30**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 96.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/22/12 18:02	02/29/12 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113	02/22/12 18:02	02/29/12 14:17	1
2-Fluorophenol	71		30 - 110	02/22/12 18:02	02/29/12 14:17	1
Nitrobenzene-d5	81		22 - 110	02/22/12 18:02	02/29/12 14:17	1
Phenol-d5	63		26 - 112	02/22/12 18:02	02/29/12 14:17	1
Terphenyl-d14	91		33 - 129	02/22/12 18:02	02/29/12 14:17	1
2,4,6-Tribromophenol	82		30 - 137	02/22/12 18:02	02/29/12 14:17	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 13:27	1
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 13:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 13:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 13:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:27	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 13:27	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:27	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 13:27	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 13:27	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 13:27	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 13:27	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 13:27	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 13:27	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 13:27	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.13	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Arsenic</b>	<b>4.4</b>		0.49	0.11	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Barium</b>	<b>14</b>		0.49	0.058	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Beryllium</b>	<b>0.28</b>		0.20	0.014	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Cadmium</b>	<b>0.26</b>		0.098	0.024	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Chromium</b>	<b>5.9</b>		0.49	0.082	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Copper</b>	<b>15</b>		0.49	0.13	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Lead</b>	<b>5.3</b>		0.25	0.084	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Nickel</b>	<b>7.7</b>		0.49	0.11	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
Silver	<0.25		0.25	0.029	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Thallium</b>	<b>0.13</b>	<b>J</b>	0.49	0.13	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Zinc</b>	<b>19</b>		0.98	0.34	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Sodium</b>	<b>200</b>		49	9.0	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Potassium</b>	<b>510</b>		25	2.8	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
<b>Calcium</b>	<b>77000</b>	<b>B E</b>	9.8	1.7	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B09-2**

**Lab Sample ID: 500-44388-22**

Date Collected: 02/21/12 15:30

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 96.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10000		9.8	4.2	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
Vanadium	14		0.25	0.037	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
Magnesium	40000	B	4.9	0.95	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
Boron	4.6		2.5	0.46	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
Manganese	260		0.49	0.069	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1
Cobalt	3.3		0.25	0.026	mg/Kg	☼	02/23/12 16:23	02/24/12 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 12:21	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015	0.0047	mg/Kg	☼	02/24/12 08:00	02/24/12 10:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			02/28/12 19:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-1**

**Lab Sample ID: 500-44388-26**

**Date Collected: 02/21/12 16:10**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Bromoform	<0.0049	*	0.0049	0.00080	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Chloroform	<0.0049		0.0049	0.00091	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
2-Hexanone	<0.0049	*	0.0049	0.00070	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
4-Methyl-2-pentanone (MIBK)	<0.0049	*	0.0049	0.00084	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Tetrachloroethene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Toluene	<0.0049		0.0049	0.00096	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
<b>Trichloroethene</b>	<b>0.0023</b>	<b>J</b>	0.0049	0.00080	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1
Xylenes, Total	<0.0099		0.0099	0.00069	mg/Kg	☼	02/21/12 16:10	02/27/12 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		67 - 120	02/21/12 16:10	02/27/12 17:04	1
Dibromofluoromethane	101		69 - 120	02/21/12 16:10	02/27/12 17:04	1
1,2-Dichloroethane-d4 (Surr)	104		69 - 120	02/21/12 16:10	02/27/12 17:04	1
Toluene-d8 (Surr)	110		69 - 122	02/21/12 16:10	02/27/12 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Benzo[a]anthracene</b>	<b>0.023</b>	<b>J</b>	0.040	0.0083	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Benzo[a]pyrene</b>	<b>0.027</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Benzo[b]fluoranthene</b>	<b>0.041</b>		0.040	0.0077	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-1**

**Lab Sample ID: 500-44388-26**

**Date Collected: 02/21/12 16:10**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.042</b>		0.040	0.013	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Benzo[k]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.040	0.0095	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Chrysene</b>	<b>0.036</b>	<b>J</b>	0.040	0.0090	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Fluoranthene</b>	<b>0.046</b>		0.040	0.016	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.018</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-1**

**Lab Sample ID: 500-44388-26**

**Date Collected: 02/21/12 16:10**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Phenanthrene</b>	<b>0.023</b>	<b>J</b>	0.040	0.017	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
<b>Pyrene</b>	<b>0.042</b>		0.040	0.014	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/22/12 18:02	02/29/12 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	40		27 - 113	02/22/12 18:02	02/29/12 16:18	1
2-Fluorophenol	38		30 - 110	02/22/12 18:02	02/29/12 16:18	1
Nitrobenzene-d5	37		22 - 110	02/22/12 18:02	02/29/12 16:18	1
Phenol-d5	37		26 - 112	02/22/12 18:02	02/29/12 16:18	1
Terphenyl-d14	51		33 - 129	02/22/12 18:02	02/29/12 16:18	1
2,4,6-Tribromophenol	48		30 - 137	02/22/12 18:02	02/29/12 16:18	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 14:25	1
<b>Barium</b>	<b>0.66</b>		0.50	0.010	mg/L		03/02/12 15:30	03/05/12 14:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 14:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 14:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:25	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:25	1
<b>Lead</b>	<b>0.0072</b>	<b>J</b>	0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 14:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:25	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 14:25	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 14:25	1
<b>Zinc</b>	<b>0.092</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 14:25	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 14:25	1
<b>Boron</b>	<b>1.5</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 14:25	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:25	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 14:25	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Arsenic</b>	<b>6.4</b>		0.59	0.13	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Barium</b>	<b>78</b>		0.59	0.070	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Beryllium</b>	<b>0.61</b>		0.24	0.017	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Cadmium</b>	<b>0.26</b>		0.12	0.029	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Chromium</b>	<b>15</b>		0.59	0.099	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Copper</b>	<b>15</b>		0.59	0.16	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Lead</b>	<b>57</b>		0.30	0.10	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Nickel</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Thallium</b>	<b>0.44</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Zinc</b>	<b>52</b>		1.2	0.41	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Sodium</b>	<b>130</b>		59	11	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Potassium</b>	<b>780</b>		30	3.3	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
<b>Calcium</b>	<b>10000</b>	<b>B</b>	12	2.1	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-1**

**Lab Sample ID: 500-44388-26**

Date Collected: 02/21/12 16:10

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 82.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000		12	5.1	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
Vanadium	23		0.30	0.045	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
Magnesium	6900	B	5.9	1.1	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
Boron	2.6	J	3.0	0.55	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
Manganese	560		0.59	0.083	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1
Cobalt	6.0		0.30	0.031	mg/Kg	☼	02/23/12 16:23	02/24/12 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 12:37	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0061	mg/Kg	☼	02/24/12 08:00	02/24/12 10:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.27		0.200	0.200	SU			02/29/12 10:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-2**

**Lab Sample ID: 500-44388-27**

Date Collected: 02/21/12 16:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0054		0.0041	0.0020	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Benzene	<0.0041		0.0041	0.00044	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Bromodichloromethane	<0.0041		0.0041	0.00062	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Bromoform	<0.0041	*	0.0041	0.00066	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Bromomethane	<0.0041		0.0041	0.00087	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
2-Butanone (MEK)	<0.0041		0.0041	0.00088	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Carbon disulfide	<0.0041		0.0041	0.00058	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Chlorobenzene	<0.0041		0.0041	0.00064	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Chloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Chloroform	<0.0041		0.0041	0.00075	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Chloromethane	<0.0041		0.0041	0.00066	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00059	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00046	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Dibromochloromethane	<0.0041		0.0041	0.00056	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,2-Dichloroethane	<0.0041		0.0041	0.00041	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,1-Dichloroethene	<0.0041		0.0041	0.00064	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,2-Dichloropropane	<0.0041		0.0041	0.00092	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00046	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Ethylbenzene	<0.0041		0.0041	0.00061	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
2-Hexanone	<0.0041	*	0.0041	0.00058	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
4-Methyl-2-pentanone (MIBK)	<0.0041	*	0.0041	0.00069	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00061	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Styrene	<0.0041		0.0041	0.00051	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Tetrachloroethene	<0.0041		0.0041	0.00077	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Toluene	<0.0041		0.0041	0.00079	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00078	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00054	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Trichloroethene	0.0019	J	0.0041	0.00066	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Vinyl chloride	<0.0041		0.0041	0.00057	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1
Xylenes, Total	<0.0081		0.0081	0.00057	mg/Kg	☼	02/21/12 16:20	02/27/12 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		67 - 120	02/21/12 16:20	02/27/12 17:29	1
Dibromofluoromethane	105		69 - 120	02/21/12 16:20	02/27/12 17:29	1
1,2-Dichloroethane-d4 (Surr)	106		69 - 120	02/21/12 16:20	02/27/12 17:29	1
Toluene-d8 (Surr)	111		69 - 122	02/21/12 16:20	02/27/12 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-2**

**Lab Sample ID: 500-44388-27**

**Date Collected: 02/21/12 16:20**

**Matrix: Solid**

**Date Received: 02/22/12 07:00**

**Percent Solids: 97.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-2**

**Lab Sample ID: 500-44388-27**

Date Collected: 02/21/12 16:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	02/22/12 18:02	02/29/12 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		27 - 113	02/22/12 18:02	02/29/12 16:42	1
2-Fluorophenol	99		30 - 110	02/22/12 18:02	02/29/12 16:42	1
Nitrobenzene-d5	100		22 - 110	02/22/12 18:02	02/29/12 16:42	1
Phenol-d5	95		26 - 112	02/22/12 18:02	02/29/12 16:42	1
Terphenyl-d14	100		33 - 129	02/22/12 18:02	02/29/12 16:42	1
2,4,6-Tribromophenol	103		30 - 137	02/22/12 18:02	02/29/12 16:42	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 14:32	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		03/02/12 15:30	03/05/12 14:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/12 15:30	03/05/12 14:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/12 15:30	03/05/12 14:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:32	1
Copper	<0.025		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/02/12 15:30	03/05/12 14:32	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:32	1
Selenium	<0.050		0.050	0.010	mg/L		03/02/12 15:30	03/05/12 14:32	1
Silver	<0.025		0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 14:32	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.10	0.020	mg/L		03/02/12 15:30	03/05/12 14:32	1
Iron	<0.20		0.20	0.20	mg/L		03/02/12 15:30	03/05/12 14:32	1
<b>Boron</b>	<b>1.2</b>		0.10	0.050	mg/L		03/02/12 15:30	03/05/12 14:32	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/02/12 15:30	03/05/12 14:32	1
<b>Cobalt</b>	<b>0.0068</b>	<b>J</b>	0.025	0.0050	mg/L		03/02/12 15:30	03/05/12 14:32	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<9.8		9.8	1.3	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Arsenic</b>	<b>12</b>		4.9	1.1	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Barium</b>	<b>20</b>		4.9	0.58	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Beryllium</b>	<b>0.52</b>	<b>J</b>	2.0	0.14	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Cadmium	<0.98		0.98	0.24	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Chromium</b>	<b>8.0</b>		4.9	0.82	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Copper</b>	<b>18</b>		4.9	1.3	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Lead</b>	<b>8.0</b>		2.4	0.84	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Nickel</b>	<b>12</b>		4.9	1.1	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Selenium	<4.9		4.9	1.4	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Silver	<2.4		2.4	0.29	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Thallium	<4.9		4.9	1.3	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Zinc</b>	<b>50</b>		9.8	3.4	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Sodium</b>	<b>370</b>	<b>J</b>	490	90	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Potassium</b>	<b>810</b>		240	28	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
<b>Calcium</b>	<b>210000</b>	<b>B</b>	98	17	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

**Client Sample ID: 915B-26-B11-2**

**Lab Sample ID: 500-44388-27**

Date Collected: 02/21/12 16:20

Matrix: Solid

Date Received: 02/22/12 07:00

Percent Solids: 97.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		98	42	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Vanadium	23		2.4	0.37	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Magnesium	120000	B	49	9.5	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Boron	14	J	24	4.6	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Manganese	540		4.9	0.69	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10
Cobalt	4.5		2.4	0.26	mg/Kg	☼	02/23/12 16:23	02/24/12 13:52	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/02/12 15:30	03/06/12 11:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/12 15:30	03/06/12 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0020		0.0020	0.00020	mg/L		03/05/12 07:50	03/05/12 12:40	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0065	J	0.015	0.0046	mg/Kg	☼	02/24/12 08:00	02/24/12 10:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			02/29/12 11:01	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44388-1  
SDG: 500-44388-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b>	Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com
Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-03Z</u> TAT: <input checked="" type="checkbox"/> 19 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		Project No.: <u>500-94368</u> Sample Temp.: <u>(3.4) (4.6) (3.7)</u>	
COC No.: <u>1</u> of <u>3</u>		Lab Job No.: <u>500-94368</u>	

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	915B-21-B01	2/21	8:30	S	✓	✓					✓	✓	✓	✓		0-6"	
2	915B-23-B02	2/21	9:00	S	✓	✓					✓	✓	✓	✓		0-10"	
3	915B-23-B02-DUP	2/21	9:30	S	✓	✓					✓	✓	✓	✓		0-10"	
4	915B-26-B01-1	2/21	10:15	S	✓	✓					✓	✓	✓	✓		0-5"	
5	915B-26-B02-1	2/21	10:45	S	✓	✓					✓	✓	✓	✓		0-5"	
6	915B-26-B01-2	2/21	10:30	S	✓	✓					✓	✓	✓	✓		5-10"	
7	915B-26-B02-2	2/21	11:00	S	✓	✓					✓	✓	✓	✓		5-10"	
8	915B-26-B03-1	2/21	11:20	S	✓	✓					✓	✓	✓	✓		0-5"	
9	915B-26-B03-2	2/21	11:40	S	✓	✓					✓	✓	✓	✓		5-10"	
10	915B-26-B04-1	2/21	12:30	S	✓	✓					✓	✓	✓	✓		0-5"	
11	915B-26-B04-2	2/21	12:45	S	✓	✓					✓	✓	✓	✓		5-10"	
12	915B-26-B05-1	2/21	1:00	S	✓	✓					✓	✓	✓	✓		0-5"	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/21/12 16:24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 16:24</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-21-12-15:39</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-21-12 17:00</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Blank]</u>	Received by: <u>[Blank]</u>	Date/Time: <u>[Blank]</u>



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> 2 of 3 (Handwritten) <b>Lab Job No.:</b> 500-44388 <b>Sample Temp:</b>														
<b>ANALYSES</b>																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments	
13	915B-26-805-2	2/21	1:50	S	✓	✓					✓	✓	✓	✓		5-10'	
14	915B-26-805-10UP	2/21	1:30	S	✓	✓					✓	✓	✓	✓		0-5'	
15	915B-26-806-1	2/21	2:15	S	✓	✓					✓	✓	✓	✓		0-5'	
16	915B-26-806-2	2/21	2:30	S	✓	✓					✓	✓	✓	✓		5-10'	
17	915B-26-807-1	2/21	2:40	S	✓	✓					✓	✓	✓	✓		0-5'	
18	915B-26-807-2	2/21	2:50	S	✓	✓					✓	✓	✓	✓		5-10'	
19	915B-26-808-1	2/21	3:00	S	✓	✓					✓	✓	✓	✓		0-5'	
20	915B-26-808-2	2/21	3:10	S	✓	✓					✓	✓	✓	✓		5-10'	
21	915B-26-809-1	2/21	3:20	S	✓	✓					✓	✓	✓	✓		0-5'	
22	915B-26-809-2	2/21	3:30	S	✓	✓					✓	✓	✓	✓		5-10'	
23	915B-26-810-1	2/21	3:40	S	✓	✓					✓	✓	✓	✓		0-5'	
24	915B-26-810-1UP	2/21	3:50	S	✓	✓					✓	✓	✓	✓		0-5'	
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time
					2/21/12	2/21/12 1624											2/21/12
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time
					2-21-12	2-21-12 1839											2/22/12
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time
					2-21-12	2-21-12 1624											2/22/12

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.



# CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

Project Name: RT14  
 Project No.: IDOT2011- 032  
 TAT:  5 BD  10 BD  5 BD  2 BD  Other

COC No.: 3 of 3  
 Lab Job No.: 500-44388  
 Sample Temp.: \_\_\_\_\_

Sampler: \_\_\_\_\_

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**Comments:**  
 5-10'  
 0-5'  
 5-10'

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOGs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Date/Time	
																	Received by:
25	Q15B-26-B10-2	2/21	4:00	S	✓	✓					✓	✓	✓			2/21/12 16:28	
26	Q15B-26-B11-1	2/21	4:10	S	✓	✓					✓	✓	✓			2/21/12 16:38	
27	Q15B-26-B11-2	2/21	4:20	S	✓	✓					✓	✓	✓			2/21/12 16:38	

Relinquished by: [Signature] Date/Time: 2/21/12 16:28  
 Relinquished by: [Signature] Date/Time: 2/21/12 16:38  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_



September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091085

Dear Colleen Grey:

TEKLAB, INC received 5 samples on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)



**Client:** Andrews Engineering, Inc.

**Work Order:** 13091085

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091085

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091085-001

Client Sample ID: 915B-26-B03-1

Matrix: SOLID

Collection Date: 09/20/2013 12:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15		< 0.15	mg/L	1	09/25/2013 13:43	92207



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091085

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091085-002

Client Sample ID: 915B-26-B03-2

Matrix: SOLID

Collection Date: 09/20/2013 12:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	J	<b>0.124</b>	mg/L	1	09/25/2013 13:49	92207



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091085

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091085-003

Client Sample ID: 915B-26-B05-1

Matrix: SOLID

Collection Date: 09/20/2013 11:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	J	<b>0.107</b>	mg/L	1	09/25/2013 13:55	92207



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091085

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091085-004

Client Sample ID: 915B-26-B05-1 DUP

Matrix: SOLID

Collection Date: 09/20/2013 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15		< 0.15	mg/L	1	09/25/2013 14:01	92207



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091085

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091085-005

Client Sample ID: 915B-26-B05-2

Matrix: SOLID

Collection Date: 09/20/2013 12:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	J	0.114	mg/L	1	09/25/2013 14:42	92207







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10501 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27757 Longitude: -88.40237

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.27757 Longitude: -88.40237Uncontaminated 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)]:

LOCATION 915B-27-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-27. SEE FIGURE 6 AND TABLE 5aa OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44466-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13091086

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

I, Steven Gobelman, P.E., L.P.G. (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.

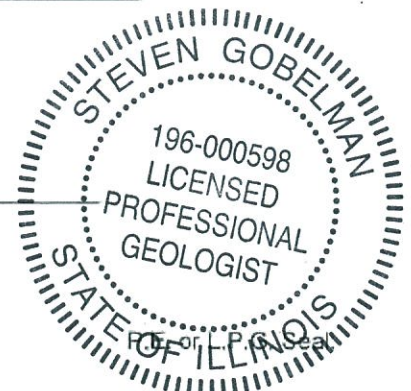
*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

7/8/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.





# 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: 500-44466-1

TestAmerica Sample Delivery Group: 500-44466-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:14:38 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-27-B01**

**Lab Sample ID: 500-44466-6**

Date Collected: 02/24/12 12:30

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/24/12 12:30	02/29/12 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/24/12 12:30	02/29/12 19:24	1
Dibromofluoromethane	101		69 - 120	02/24/12 12:30	02/29/12 19:24	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 120	02/24/12 12:30	02/29/12 19:24	1
Toluene-d8 (Surr)	107		69 - 122	02/24/12 12:30	02/29/12 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-27-B01**

**Lab Sample ID: 500-44466-6**

**Date Collected: 02/24/12 12:30**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-27-B01**

**Lab Sample ID: 500-44466-6**

**Date Collected: 02/24/12 12:30**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113	02/29/12 07:07	03/06/12 13:23	1
2-Fluorophenol	63		30 - 110	02/29/12 07:07	03/06/12 13:23	1
Nitrobenzene-d5	76		22 - 110	02/29/12 07:07	03/06/12 13:23	1
Phenol-d5	66		26 - 112	02/29/12 07:07	03/06/12 13:23	1
Terphenyl-d14	88		33 - 129	02/29/12 07:07	03/06/12 13:23	1
2,4,6-Tribromophenol	90		30 - 137	02/29/12 07:07	03/06/12 13:23	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:43	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.010	mg/L		03/06/12 09:00	03/06/12 17:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 17:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 17:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:43	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 17:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:43	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:43	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:43	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 17:43	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 17:43	1
Boron	<0.10		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 17:43	1
<b>Manganese</b>	<b>0.041</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:43	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Arsenic</b>	<b>7.6</b>		0.58	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Barium</b>	<b>89</b>		0.58	0.068	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.017	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Cadmium</b>	<b>0.037</b>	<b>J</b>	0.12	0.028	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Chromium</b>	<b>16</b>		0.58	0.096	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Copper</b>	<b>17</b>		0.58	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Lead</b>	<b>11</b>		0.29	0.099	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Nickel</b>	<b>14</b>		0.58	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Selenium</b>	<b>0.35</b>	<b>J</b>	0.58	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Thallium</b>	<b>0.17</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Zinc</b>	<b>41</b>		1.2	0.39	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Sodium</b>	<b>100</b>		58	11	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Potassium</b>	<b>750</b>		29	3.3	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
<b>Calcium</b>	<b>2500</b>		12	2.0	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-27-B01**

**Lab Sample ID: 500-44466-6**

Date Collected: 02/24/12 12:30

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 82.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19000		12	5.0	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
Vanadium	27		0.29	0.044	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
Magnesium	3000		5.8	1.1	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
Boron	1.3	J	2.9	0.54	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
Manganese	380		0.58	0.081	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1
Cobalt	7.5		0.29	0.030	mg/Kg	☼	03/01/12 17:40	03/03/12 02:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/08/12 12:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 12:52	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.0062	mg/Kg	☼	02/28/12 13:45	02/29/12 09:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.86		0.200	0.200	SU			03/06/12 13:23	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)





September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091086

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13091086

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.  
**Client Project:** IDOT2011-032  
**Lab ID:** 13091086-001  
**Matrix:** SOLID

**Work Order:** 13091086  
**Report Date:** 30-Sep-13  
**Client Sample ID:** 915B-27-B01  
**Collection Date:** 09/20/2013 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15		< 0.15	mg/L	1	09/25/2013 14:48	92207







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10625 US 14

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.27845 Longitude: -88.40348

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.27845 Longitude: -88.40348

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):

LOCATION 915B-28-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-28. SEE FIGURE 6 AND TABLE 5ab OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID 500-44466-1

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

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
\_\_\_\_\_  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

7/8/14  
\_\_\_\_\_  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISGS Site 915B-28  
Vacant Buildings**

<b>Sample ID</b>	915B-28-B01							
<b>Sample Depth (ft)</b>	0-6							
<b>Sample Date</b>	2/24/2012							
<b>PID</b>	0							
<b>Sample pH</b>	7.58							
<b>Matrix</b>	Soil							
<b>No Contaminants of Concern Noted.</b>								

# 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: 500-44466-1

TestAmerica Sample Delivery Group: 500-44466-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:14:38 PM

Jodie Bracken

Data Delivery Analyst

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Designee for

Richard Wright

Project Manager II

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-28-B01**

**Lab Sample ID: 500-44466-4**

Date Collected: 02/24/12 10:30

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Carbon disulfide	<0.0046		0.0046	0.00066	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
2-Hexanone	<0.0046		0.0046	0.00066	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00079	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Toluene	<0.0046		0.0046	0.00090	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1
Xylenes, Total	<0.0092		0.0092	0.00065	mg/Kg	☼	02/24/12 10:30	02/29/12 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/24/12 10:30	02/29/12 18:32	1
Dibromofluoromethane	100		69 - 120	02/24/12 10:30	02/29/12 18:32	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 120	02/24/12 10:30	02/29/12 18:32	1
Toluene-d8 (Surr)	109		69 - 122	02/24/12 10:30	02/29/12 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-28-B01**

**Lab Sample ID: 500-44466-4**

**Date Collected: 02/24/12 10:30**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-28-B01**

**Lab Sample ID: 500-44466-4**

**Date Collected: 02/24/12 10:30**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 81.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		27 - 113	02/29/12 07:07	03/05/12 20:31	1
2-Fluorophenol	67		30 - 110	02/29/12 07:07	03/05/12 20:31	1
Nitrobenzene-d5	73		22 - 110	02/29/12 07:07	03/05/12 20:31	1
Phenol-d5	70		26 - 112	02/29/12 07:07	03/05/12 20:31	1
Terphenyl-d14	88		33 - 129	02/29/12 07:07	03/05/12 20:31	1
2,4,6-Tribromophenol	94		30 - 137	02/29/12 07:07	03/05/12 20:31	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:31	1
<b>Barium</b>	<b>0.64</b>		0.50	0.010	mg/L		03/06/12 09:00	03/06/12 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 17:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:31	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 17:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:31	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:31	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:31	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 17:31	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 17:31	1
Boron	<0.10		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 17:31	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:31	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:31	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Arsenic</b>	<b>7.0</b>		0.61	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Barium</b>	<b>75</b>		0.61	0.072	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Beryllium</b>	<b>0.67</b>		0.24	0.018	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Cadmium</b>	<b>0.13</b>		0.12	0.030	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Chromium</b>	<b>15</b>		0.61	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Copper</b>	<b>17</b>		0.61	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Lead</b>	<b>9.9</b>		0.30	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Nickel</b>	<b>17</b>		0.61	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Selenium</b>	<b>0.19</b>	<b>J</b>	0.61	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Thallium</b>	<b>0.31</b>	<b>J</b>	0.61	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Zinc</b>	<b>39</b>		1.2	0.42	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Sodium</b>	<b>740</b>		61	11	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Potassium</b>	<b>960</b>		30	3.4	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
<b>Calcium</b>	<b>9500</b>		12	2.1	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-28-B01**

**Lab Sample ID: 500-44466-4**

Date Collected: 02/24/12 10:30

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 81.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000		12	5.3	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
Vanadium	25		0.30	0.046	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
Magnesium	7300		6.1	1.2	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
Boron	2.0	J	3.0	0.57	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
Manganese	390		0.61	0.086	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1
Cobalt	6.1		0.30	0.032	mg/Kg	☼	03/01/12 17:40	03/03/12 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/08/12 12:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 12:49	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.0062	mg/Kg	☼	02/28/12 13:45	02/29/12 09:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU			03/06/12 13:16	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No. <u>1</u> of <u>2</u> Lab Job No. <u>500-44A66</u> Sample Temp. <u>3.1</u>									
<b>ANALYSES</b>															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	BTEX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-25-B02	2/24/12	9:00	S	✓					✓	✓	✓	✓		0-6'
2	915B-25-B02 DUP	2/24	9:30	S	✓					✓	✓	✓	✓		0-6'
3	915B-25-B03	2/24	10:00	S	✓					✓	✓	✓	✓		0-6'
4	915B-28-B01	2/24	10:30	S	✓					✓	✓	✓	✓		0-6'
5	915B-29-B01	2/24	11:00	S	✓					✓	✓	✓	✓		0-10'
6	915B-27-B01	2/24	12:30	S	✓					✓	✓	✓	✓		0-5'
7	915B-29-B02	2/24	1:00	S	✓					✓	✓	✓	✓		0-10'
8	915B-30-B01	2/24	1:10	S	✓					✓	✓	✓	✓		0-6'
9	915B-30-B02	2/24	1:30	S	✓					✓	✓	✓	✓		0-6'
10	915B-36-B01	2/24	3:00	S	✓					✓	✓	✓	✓		0-6'
11	915B-29-B03	2/27	3:15	S	✓					✓	✓	✓	✓		0-10'
12	915B-29-B03 DUP	2/27	3:15	S	✓					✓	✓	✓	✓		0-10'
Relinquished by: <u>[Signature]</u> Date/Time: <u>2/24/12 16:30</u>					Received by: <u>[Signature]</u> Date/Time: <u>2/24/12 16:30</u>										
Relinquished by: <u>[Signature]</u> Date/Time: <u>2/24/12 18:50</u>					Received by: <u>[Signature]</u> Date/Time: <u>2/25/12 07:00</u>										
Relinquished by: <u>[Signature]</u> Date/Time: <u>2/24/12 18:50</u>					Received by: <u>[Signature]</u> Date/Time: <u>2/25/12 07:00</u>										

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

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

10600 - 10900 block of US 14 (southwest side of US 14)

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

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

Latitude: 42.28037 Longitude: -88.40616

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.28037 Longitude: -88.40616Uncontaminated 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):

LOCATIONS 915B-29-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-29. SEE FIGURES 5 AND 6 AND TABLE 5ac OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44466-1

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

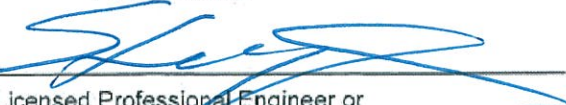
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance 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))***

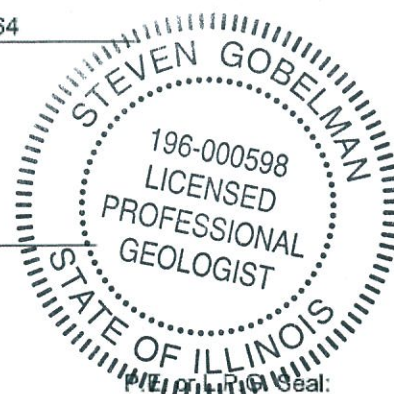
Company Name: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/8/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-29  
Agricultural Field and Vacant Lot**

Sample ID	915B-29-B01	915B-29-B02	915B-29-B03	915B-29-B03 DUP	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-10	0-10	0-10	0-10						
Sample Date	2/24/2012	2/24/2012	2/24/2012	2/24/2012						
PID	0	0	0	0						
Sample pH	7.62	7.96	8.12	8.28						
Matrix	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

# 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: 500-44466-1

TestAmerica Sample Delivery Group: 500-44466-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:14:38 PM

Jodie Bracken

Data Delivery Analyst

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

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B01**

**Lab Sample ID: 500-44466-5**

Date Collected: 02/24/12 11:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Carbon disulfide	<0.0046		0.0046	0.00066	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00068	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Ethylbenzene	<0.0046		0.0046	0.00070	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
2-Hexanone	<0.0046		0.0046	0.00066	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00079	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00070	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Toluene	<0.0046		0.0046	0.00090	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1
Xylenes, Total	<0.0093		0.0093	0.00065	mg/Kg	☼	02/24/12 11:00	02/29/12 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/24/12 11:00	02/29/12 18:58	1
Dibromofluoromethane	101		69 - 120	02/24/12 11:00	02/29/12 18:58	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 120	02/24/12 11:00	02/29/12 18:58	1
Toluene-d8 (Surr)	108		69 - 122	02/24/12 11:00	02/29/12 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B01**

**Lab Sample ID: 500-44466-5**

**Date Collected: 02/24/12 11:00**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 84.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B01**

**Lab Sample ID: 500-44466-5**

Date Collected: 02/24/12 11:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		27 - 113	02/29/12 07:07	03/05/12 20:52	1
2-Fluorophenol	70		30 - 110	02/29/12 07:07	03/05/12 20:52	1
Nitrobenzene-d5	82		22 - 110	02/29/12 07:07	03/05/12 20:52	1
Phenol-d5	74		26 - 112	02/29/12 07:07	03/05/12 20:52	1
Terphenyl-d14	98		33 - 129	02/29/12 07:07	03/05/12 20:52	1
2,4,6-Tribromophenol	94		30 - 137	02/29/12 07:07	03/05/12 20:52	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:37	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		03/06/12 09:00	03/06/12 17:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 17:37	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:37	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 17:37	1
<b>Nickel</b>	<b>0.012 J</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:37	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 17:37	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:37	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 17:37	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 17:37	1
<b>Boron</b>	<b>0.054 J B</b>		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 17:37	1
<b>Manganese</b>	<b>0.70</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 17:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 17:37	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Arsenic</b>	<b>6.9</b>		0.59	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Barium</b>	<b>73</b>		0.59	0.071	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Beryllium</b>	<b>0.71</b>		0.24	0.017	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Cadmium</b>	<b>0.13</b>		0.12	0.029	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Chromium</b>	<b>19</b>		0.59	0.099	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Copper</b>	<b>20</b>		0.59	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Lead</b>	<b>9.1</b>		0.30	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Nickel</b>	<b>18</b>		0.59	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Selenium</b>	<b>0.17 J</b>		0.59	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Thallium</b>	<b>0.36 J</b>		0.59	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Zinc</b>	<b>40</b>		1.2	0.41	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Sodium</b>	<b>150</b>		59	11	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Potassium</b>	<b>830</b>		30	3.4	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
<b>Calcium</b>	<b>9600</b>		12	2.1	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B01**

**Lab Sample ID: 500-44466-5**

Date Collected: 02/24/12 11:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 84.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000		12	5.2	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
Vanadium	28		0.30	0.045	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
Magnesium	7300		5.9	1.2	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
Boron	2.1	J	3.0	0.55	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
Manganese	380		0.59	0.084	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1
Cobalt	6.6		0.30	0.031	mg/Kg	☼	03/01/12 17:40	03/03/12 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/08/12 12:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 12:50	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0055	mg/Kg	☼	02/28/12 13:45	02/29/12 09:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.62		0.200	0.200	SU			03/06/12 13:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B02**

**Lab Sample ID: 500-44466-7**

Date Collected: 02/24/12 13:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0023	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Bromoform	<0.0048	*	0.0048	0.00077	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Chlorobenzene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Chloromethane	<0.0048		0.0048	0.00078	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00054	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,1-Dichloroethene	<0.0048		0.0048	0.00075	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00054	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00081	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Trichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1
Xylenes, Total	<0.0095		0.0095	0.00067	mg/Kg	☼	02/24/12 13:00	02/29/12 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		67 - 120	02/24/12 13:00	02/29/12 19:50	1
Dibromofluoromethane	98		69 - 120	02/24/12 13:00	02/29/12 19:50	1
1,2-Dichloroethane-d4 (Surr)	94		69 - 120	02/24/12 13:00	02/29/12 19:50	1
Toluene-d8 (Surr)	109		69 - 122	02/24/12 13:00	02/29/12 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Acenaphthylene	<0.033		0.033	0.0085	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B02**

**Lab Sample ID: 500-44466-7**

**Date Collected: 02/24/12 13:00**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 84.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B02**

**Lab Sample ID: 500-44466-7**

Date Collected: 02/24/12 13:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Phenol	<0.19		0.19	0.059	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		27 - 113	02/29/12 07:07	03/05/12 21:34	1
2-Fluorophenol	68		30 - 110	02/29/12 07:07	03/05/12 21:34	1
Nitrobenzene-d5	71		22 - 110	02/29/12 07:07	03/05/12 21:34	1
Phenol-d5	71		26 - 112	02/29/12 07:07	03/05/12 21:34	1
Terphenyl-d14	86		33 - 129	02/29/12 07:07	03/05/12 21:34	1
2,4,6-Tribromophenol	90		30 - 137	02/29/12 07:07	03/05/12 21:34	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:23	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.010	mg/L		03/06/12 09:00	03/06/12 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:23	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:23	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:23	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:23	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:23	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 18:23	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 18:23	1
Boron	<0.10		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 18:23	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:23	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:23	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Arsenic</b>	<b>5.0</b>		0.57	0.12	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Barium</b>	<b>45</b>		0.57	0.068	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.017	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.028	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Chromium</b>	<b>10</b>		0.57	0.095	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Copper</b>	<b>12</b>		0.57	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Lead</b>	<b>6.3</b>		0.28	0.098	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Nickel</b>	<b>9.4</b>		0.57	0.12	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Thallium</b>	<b>0.17</b>	<b>J</b>	0.57	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Zinc</b>	<b>26</b>		1.1	0.39	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Sodium</b>	<b>430</b>		57	10	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Potassium</b>	<b>790</b>		28	3.2	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
<b>Calcium</b>	<b>52000</b>		11	2.0	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B02**

**Lab Sample ID: 500-44466-7**

Date Collected: 02/24/12 13:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 84.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		11	4.9	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
Vanadium	20		0.28	0.043	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
Magnesium	30000		5.7	1.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
Boron	3.4		2.8	0.53	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
Manganese	290		0.57	0.080	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1
Cobalt	4.1		0.28	0.030	mg/Kg	☼	03/01/12 17:40	03/03/12 03:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/09/12 12:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 12:58	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0053	mg/Kg	☼	02/28/12 13:45	02/29/12 10:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			03/06/12 13:26	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03**

**Lab Sample ID: 500-44466-11**

Date Collected: 02/24/12 15:15

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0024	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Bromoform	<0.0048	*	0.0048	0.00078	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Carbon tetrachloride	<0.0048		0.0048	0.0011	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Chloroform	<0.0048		0.0048	0.00089	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Chloromethane	<0.0048		0.0048	0.00079	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Dibromochloromethane	<0.0048		0.0048	0.00067	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00082	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Styrene	<0.0048		0.0048	0.00061	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Tetrachloroethene	<0.0048		0.0048	0.00092	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Toluene	<0.0048		0.0048	0.00094	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/24/12 15:15	02/29/12 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		67 - 120	02/24/12 15:15	02/29/12 14:49	1
Dibromofluoromethane	92		69 - 120	02/24/12 15:15	02/29/12 14:49	1
1,2-Dichloroethane-d4 (Surr)	83		69 - 120	02/24/12 15:15	02/29/12 14:49	1
Toluene-d8 (Surr)	76		69 - 122	02/24/12 15:15	02/29/12 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03**

**Lab Sample ID: 500-44466-11**

**Date Collected: 02/24/12 15:15**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03**

**Lab Sample ID: 500-44466-11**

Date Collected: 02/24/12 15:15

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 82.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		27 - 113	02/29/12 07:07	03/05/12 22:57	1
2-Fluorophenol	74		30 - 110	02/29/12 07:07	03/05/12 22:57	1
Nitrobenzene-d5	80		22 - 110	02/29/12 07:07	03/05/12 22:57	1
Phenol-d5	77		26 - 112	02/29/12 07:07	03/05/12 22:57	1
Terphenyl-d14	90		33 - 129	02/29/12 07:07	03/05/12 22:57	1
2,4,6-Tribromophenol	93		30 - 137	02/29/12 07:07	03/05/12 22:57	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:48	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.010	mg/L		03/06/12 09:00	03/06/12 18:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 18:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 18:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:48	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 18:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:48	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:48	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:48	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 18:48	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 18:48	1
<b>Boron</b>	<b>0.083</b>	<b>J B</b>	0.10	0.050	mg/L		03/06/12 09:00	03/06/12 18:48	1
<b>Manganese</b>	<b>0.79</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:48	1
<b>Cobalt</b>	<b>0.0091</b>	<b>J</b>	0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Arsenic</b>	<b>2.2</b>		0.59	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Barium</b>	<b>36</b>		0.59	0.071	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Beryllium</b>	<b>0.42</b>		0.24	0.017	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Cadmium</b>	<b>0.10</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Chromium</b>	<b>9.3</b>		0.59	0.099	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Copper</b>	<b>12</b>		0.59	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Lead</b>	<b>5.8</b>		0.30	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Nickel</b>	<b>6.7</b>		0.59	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Zinc</b>	<b>25</b>		1.2	0.41	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Sodium</b>	<b>150</b>		59	11	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Potassium</b>	<b>570</b>		30	3.4	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
<b>Calcium</b>	<b>4000</b>		12	2.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03**

**Lab Sample ID: 500-44466-11**

Date Collected: 02/24/12 15:15

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 82.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8900		12	5.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Vanadium	18		0.30	0.045	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Magnesium	24000		5.9	1.2	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Boron	2.8	J	3.0	0.55	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Manganese	130		0.59	0.084	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1
Cobalt	2.7		0.30	0.031	mg/Kg	☼	03/01/12 17:40	03/03/12 03:28	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/09/12 12:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:39	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 13:04	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0055	mg/Kg	☼	02/28/12 13:45	02/29/12 10:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			03/06/12 13:40	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03 DUP**

**Lab Sample ID: 500-44466-12**

Date Collected: 02/24/12 15:15

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 81.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Carbon disulfide	<0.0049		0.0049	0.00069	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1
Xylenes, Total	<0.0098		0.0098	0.00068	mg/Kg	☼	02/24/12 15:15	02/29/12 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		67 - 120	02/24/12 15:15	02/29/12 15:14	1
Dibromofluoromethane	89		69 - 120	02/24/12 15:15	02/29/12 15:14	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 120	02/24/12 15:15	02/29/12 15:14	1
Toluene-d8 (Surr)	96		69 - 122	02/24/12 15:15	02/29/12 15:14	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03 DUP**

**Lab Sample ID: 500-44466-12**

**Date Collected: 02/24/12 15:15**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 81.8**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03 DUP**

**Lab Sample ID: 500-44466-12**

Date Collected: 02/24/12 15:15

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 81.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		27 - 113	02/29/12 07:07	03/05/12 23:17	1
2-Fluorophenol	65		30 - 110	02/29/12 07:07	03/05/12 23:17	1
Nitrobenzene-d5	74		22 - 110	02/29/12 07:07	03/05/12 23:17	1
Phenol-d5	69		26 - 112	02/29/12 07:07	03/05/12 23:17	1
Terphenyl-d14	91		33 - 129	02/29/12 07:07	03/05/12 23:17	1
2,4,6-Tribromophenol	90		30 - 137	02/29/12 07:07	03/05/12 23:17	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:54	1
<b>Barium</b>	<b>0.51</b>		0.50	0.010	mg/L		03/06/12 09:00	03/06/12 18:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 18:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 18:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:54	1
<b>Copper</b>	<b>0.010 J</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:54	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 18:54	1
<b>Nickel</b>	<b>0.010 J</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:54	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:54	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:54	1
<b>Zinc</b>	<b>0.025 J</b>		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 18:54	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 18:54	1
<b>Boron</b>	<b>0.95 B</b>		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 18:54	1
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:54	1
<b>Cobalt</b>	<b>0.0053 J</b>		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:54	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Arsenic</b>	<b>2.4</b>		0.59	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Barium</b>	<b>29</b>		0.59	0.070	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Beryllium</b>	<b>0.38</b>		0.24	0.017	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Cadmium</b>	<b>0.13</b>		0.12	0.029	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Chromium</b>	<b>9.8</b>		0.59	0.099	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Copper</b>	<b>11</b>		0.59	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Lead</b>	<b>4.6</b>		0.30	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Nickel</b>	<b>7.4</b>		0.59	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Zinc</b>	<b>24</b>		1.2	0.41	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Sodium</b>	<b>250</b>		59	11	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Potassium</b>	<b>580</b>		30	3.4	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
<b>Calcium</b>	<b>46000</b>		12	2.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-29-B03 DUP**

**Lab Sample ID: 500-44466-12**

Date Collected: 02/24/12 15:15

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 81.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9300		12	5.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Vanadium	20		0.30	0.045	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Magnesium	29000		5.9	1.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Boron	2.8	J	3.0	0.55	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Manganese	120		0.59	0.084	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1
Cobalt	2.3		0.30	0.031	mg/Kg	☼	03/01/12 17:40	03/03/12 03:34	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/09/12 12:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:40	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 13:06	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0093	J	0.019	0.0058	mg/Kg	☼	02/28/12 13:45	02/29/12 10:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			03/06/12 13:43	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com		<b>Project Name:</b> RTE 14 <b>Project No.:</b> IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 1 of 2 <b>Lab Job No.:</b> 500-44466 <b>Sample Temp.:</b> 3.1									
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>ANALYSES</b>													
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	BTEX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-25-B02	2/24/12	9:00	S	✓					✓	✓	✓	✓		0-6'
2	915B-25-B02 DUP	2/24	9:30	S	✓					✓	✓	✓	✓		0-6'
3	915B-25-B03	2/24	10:00	S	✓					✓	✓	✓	✓		0-6'
4	915B-28-B01	2/24	10:30	S	✓					✓	✓	✓	✓		0-6'
5	915B-29-B01	2/24	11:00	S	✓					✓	✓	✓	✓		0-10'
6	915B-27-B01	2/24	12:30	S	✓					✓	✓	✓	✓		0-5'
7	915B-29-B02	2/24	1:00	S	✓					✓	✓	✓	✓		0-10'
8	915B-30-B01	2/24	1:10	S	✓					✓	✓	✓	✓		0-6'
9	915B-30-B02	2/24	1:30	S	✓					✓	✓	✓	✓		0-6'
10	915B-36-B01	2/24	3:00	S	✓					✓	✓	✓	✓		0-6'
11	915B-29-B03	2/24	3:15	S	✓					✓	✓	✓	✓		0-10'
12	915B-29-B03 DUP	2/24	3:15	S	✓					✓	✓	✓	✓		0-10'
Relinquished by: <i>[Signature]</i>					Date/Time: 2/24/12 16:30	Received by: <i>[Signature]</i>					Date/Time: 2/24/12 16:30				
Relinquished by: <i>[Signature]</i>					Date/Time: 2/24/12 18:50	Received by: <i>[Signature]</i>					Date/Time: 2/25/12 07:00				
Relinquished by:					Date/Time:	Received by:					Date/Time:				







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

10600 - 10900 block of US 14 (northeast side of US 14)

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.28056 Longitude: -88.40609

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.28056 Longitude: -88.40609

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):

LOCATIONS 915B-30-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-30. SEE FIGURES 5 AND 6 AND TABLE 5ad OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44466-1

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

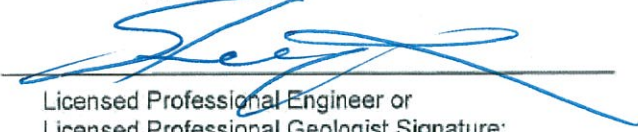
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/8/14

Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-30  
Agricultural Field and Vacant Lot**

Sample ID	915B-30-B01	915B-30-B02	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6						
Sample Date	2/24/2012	2/24/2012						
PID	0	0						
Sample pH	7.9	7.66						
Matrix	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>								

# 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: 500-44466-1

TestAmerica Sample Delivery Group: 500-44466-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:14:38 PM

Jodie Bracken

Data Delivery Analyst

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B01**

**Lab Sample ID: 500-44466-8**

Date Collected: 02/24/12 13:10

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 83.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/24/12 13:10	02/29/12 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		67 - 120	02/24/12 13:10	02/29/12 20:15	1
Dibromofluoromethane	96		69 - 120	02/24/12 13:10	02/29/12 20:15	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 120	02/24/12 13:10	02/29/12 20:15	1
Toluene-d8 (Surr)	109		69 - 122	02/24/12 13:10	02/29/12 20:15	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Acenaphthylene	<0.034		0.034	0.0087	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
<b>Benzo[a]pyrene</b>	<b>0.0083</b>	<b>J</b>	0.038	0.0069	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0073	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B01**

**Lab Sample ID: 500-44466-8**

**Date Collected: 02/24/12 13:10**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 83.6**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Chrysene	<0.038		0.038	0.0085	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Fluoranthene	<0.038		0.038	0.015	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
4-Nitroaniline	<0.38		0.38	0.077	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B01**

**Lab Sample ID: 500-44466-8**

Date Collected: 02/24/12 13:10

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 83.6

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	02/29/12 07:07	03/05/12 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		27 - 113	02/29/12 07:07	03/05/12 21:54	1
2-Fluorophenol	77		30 - 110	02/29/12 07:07	03/05/12 21:54	1
Nitrobenzene-d5	83		22 - 110	02/29/12 07:07	03/05/12 21:54	1
Phenol-d5	82		26 - 112	02/29/12 07:07	03/05/12 21:54	1
Terphenyl-d14	103		33 - 129	02/29/12 07:07	03/05/12 21:54	1
2,4,6-Tribromophenol	107		30 - 137	02/29/12 07:07	03/05/12 21:54	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:29	1
<b>Barium</b>	<b>0.50</b>		0.50	0.010	mg/L		03/06/12 09:00	03/06/12 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 18:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:29	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 18:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:29	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:29	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:29	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 18:29	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 18:29	1
Boron	<0.10		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 18:29	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:29	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Arsenic</b>	<b>7.2</b>		0.58	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Barium</b>	<b>86</b>		0.58	0.069	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Beryllium</b>	<b>0.72</b>		0.23	0.017	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Cadmium</b>	<b>0.12</b>		0.12	0.029	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Chromium</b>	<b>18</b>		0.58	0.096	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Copper</b>	<b>15</b>		0.58	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Lead</b>	<b>13</b>		0.29	0.099	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Nickel</b>	<b>14</b>		0.58	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Selenium</b>	<b>0.24</b>	<b>J</b>	0.58	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Zinc</b>	<b>38</b>		1.2	0.40	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Sodium</b>	<b>60</b>		58	11	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Potassium</b>	<b>680</b>		29	3.3	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
<b>Calcium</b>	<b>6300</b>		12	2.0	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B01**

**Lab Sample ID: 500-44466-8**

Date Collected: 02/24/12 13:10

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 83.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19000		12	5.0	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
Vanadium	30		0.29	0.044	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
Magnesium	4700		5.8	1.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
Boron	1.5	J	2.9	0.54	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
Manganese	420		0.58	0.081	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1
Cobalt	8.2		0.29	0.030	mg/Kg	☼	03/01/12 17:40	03/03/12 03:10	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/09/12 12:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:37	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 12:59	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.017	0.0053	mg/Kg	☼	02/28/12 13:45	02/29/12 10:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			03/06/12 13:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B02**

**Lab Sample ID: 500-44466-9**

Date Collected: 02/24/12 13:30

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 79.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Bromoform	<0.0050	*	0.0050	0.00081	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Chloroform	<0.0050		0.0050	0.00092	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Chloromethane	<0.0050		0.0050	0.00082	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00085	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Tetrachloroethene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Toluene	<0.0050		0.0050	0.00098	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Trichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/24/12 13:30	02/29/12 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/24/12 13:30	02/29/12 13:59	1
Dibromofluoromethane	85		69 - 120	02/24/12 13:30	02/29/12 13:59	1
1,2-Dichloroethane-d4 (Surr)	83		69 - 120	02/24/12 13:30	02/29/12 13:59	1
Toluene-d8 (Surr)	76		69 - 122	02/24/12 13:30	02/29/12 13:59	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Acenaphthylene	<0.037		0.037	0.0093	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B02**

**Lab Sample ID: 500-44466-9**

**Date Collected: 02/24/12 13:30**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 79.0**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B02**

**Lab Sample ID: 500-44466-9**

Date Collected: 02/24/12 13:30

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 79.0

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		27 - 113	02/29/12 07:07	03/05/12 22:15	1
2-Fluorophenol	63		30 - 110	02/29/12 07:07	03/05/12 22:15	1
Nitrobenzene-d5	71		22 - 110	02/29/12 07:07	03/05/12 22:15	1
Phenol-d5	67		26 - 112	02/29/12 07:07	03/05/12 22:15	1
Terphenyl-d14	95		33 - 129	02/29/12 07:07	03/05/12 22:15	1
2,4,6-Tribromophenol	94		30 - 137	02/29/12 07:07	03/05/12 22:15	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:35	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.010	mg/L		03/06/12 09:00	03/06/12 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 18:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 18:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:35	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 18:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:35	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:35	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:35	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 18:35	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 18:35	1
Boron	<0.10		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 18:35	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:35	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:35	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Arsenic</b>	<b>2.0</b>		0.60	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Barium</b>	<b>71</b>		0.60	0.071	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Beryllium</b>	<b>0.70</b>		0.24	0.018	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Cadmium</b>	<b>0.064</b>	<b>J</b>	0.12	0.030	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Chromium</b>	<b>16</b>		0.60	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Copper</b>	<b>12</b>		0.60	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Lead</b>	<b>12</b>		0.30	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Nickel</b>	<b>15</b>		0.60	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Selenium</b>	<b>0.26</b>	<b>J</b>	0.60	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
Thallium	<0.60		0.60	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Zinc</b>	<b>41</b>		1.2	0.41	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Sodium</b>	<b>390</b>		60	11	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Potassium</b>	<b>610</b>		30	3.4	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
<b>Calcium</b>	<b>4200</b>		12	2.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-30-B02**

**Lab Sample ID: 500-44466-9**

Date Collected: 02/24/12 13:30

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 79.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13000		12	5.2	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
Vanadium	24		0.30	0.045	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
Magnesium	3700		6.0	1.2	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
Boron	1.2	J	3.0	0.56	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
Manganese	52		0.60	0.084	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1
Cobalt	5.7		0.30	0.031	mg/Kg	☼	03/01/12 17:40	03/03/12 03:16	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/09/12 12:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:37	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 13:01	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.0060	mg/Kg	☼	02/28/12 13:45	02/29/12 10:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU			03/06/12 13:33	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>ATE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No. <u>1</u> of <u>2</u> Lab Job No. <u>500-44466</u> Sample Temp. <u>3.1</u>									
<b>ANALYSES</b>															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	BTEX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-25-B02	2/24/12	9:00	S	✓					✓	✓	✓	✓		0-6'
2	915B-25-B02 DUP	2/24	9:30	S	✓					✓	✓	✓	✓		0-6'
3	915B-25-B03	2/24	10:00	S	✓					✓	✓	✓	✓		0-6'
4	915B-28-B01	2/24	10:30	S	✓					✓	✓	✓	✓		0-6'
5	915B-29-B01	2/24	11:00	S	✓					✓	✓	✓	✓		0-10'
6	915B-27-B01	2/24	12:30	S	✓					✓	✓	✓	✓		0-5'
7	915B-29-B02	2/24	1:00	S	✓					✓	✓	✓	✓		0-10'
8	915B-30-B01	2/24	1:10	S	✓					✓	✓	✓	✓		0-6'
9	915B-30-B02	2/24	1:30	S	✓					✓	✓	✓	✓		0-6'
10	915B-36-B01	2/24	3:00	S	✓					✓	✓	✓	✓		0-6'
11	915B-29-B03	2/27	3:15	S	✓					✓	✓	✓	✓		0-10'
12	915B-29-B03 DUP	2/27	3:15	S	✓					✓	✓	✓	✓		0-10'
Relinquished by: <u>[Signature]</u>					Date/Time: <u>2/24/12 16:30</u>	Received by: <u>[Signature]</u>					Date/Time: <u>2/24/12 16:30</u>				
Relinquished by: <u>[Signature]</u>					Date/Time: <u>2/27/12 18:50</u>	Received by: <u>[Signature]</u>					Date/Time: <u>2/25/12 0700</u>				
Relinquished by: <u>[Signature]</u>					Date/Time: <u>2/27/12 18:50</u>	Received by: <u>[Signature]</u>					Date/Time: <u>2/25/12 0700</u>				

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.



# CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

Project Name: RIE 14  
 Project No.: IDOT2011-032  
 TAT:  5 BD  10 BD  5 BD  2 BD  Other  
 Sampler: \_\_\_\_\_

COC No.: 2 of 2  
 Lab Job No.: 500-44466  
 Sample Temp: \_\_\_\_\_

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*if TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix
B	915B-37-BO1	2/24/12	3:45	S

**ANALYSES**

VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**Comments:**  
 0-6

Relinquished by: [Signature] Date/Time: 2/24/12 16:30  
 Relinquished by: [Signature] Date/Time: 2/27/12 1850  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: [Signature] Date/Time: 2/25/12 1630  
 Received by: [Signature] Date/Time: 2/25/12 0700  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

2400 - 2426 Lake Shore Drive

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.28251 Longitude: -88.40870

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.Latitude: 42.28251 Longitude: -88.40870Uncontaminated 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):

LOCATION 915B-36-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-36. SEE FIGURE 5 AND TABLE 5ae OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44466-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER: 13091087


**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

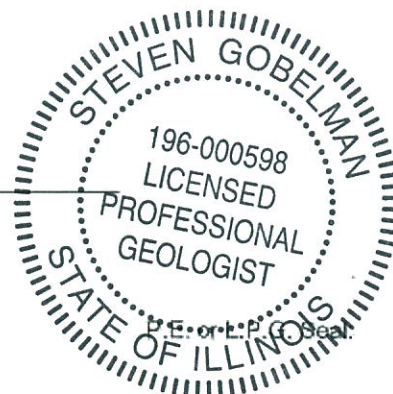
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance 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: IDOT Bureau of Design and EnvironmentStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217.785.4246Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date: 7/2/14

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-36  
Vacant Lot**

<b>Sample ID</b>	915B-36-B01								
<b>Sample Depth (ft)</b>	0-6								
<b>Sample Date</b>	2/24/2012								
<b>PID</b>	0								
<b>Sample pH</b>	6.25								
<b>Matrix</b>	Soil								
<b>No Contaminants of Concern Noted.</b>									
		<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only		

# 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: 500-44466-1

TestAmerica Sample Delivery Group: 500-44466-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:14:38 PM

Jodie Bracken

Data Delivery Analyst

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-36-B01**

**Lab Sample ID: 500-44466-10**

Date Collected: 02/24/12 15:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 80.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Bromodichloromethane	<0.0047		0.0047	0.00072	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Chloroform	<0.0047		0.0047	0.00087	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Ethylbenzene	<0.0047		0.0047	0.00071	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00071	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Tetrachloroethene	<0.0047		0.0047	0.00090	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/24/12 15:00	02/29/12 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		67 - 120	02/24/12 15:00	02/29/12 14:24	1
Dibromofluoromethane	85		69 - 120	02/24/12 15:00	02/29/12 14:24	1
1,2-Dichloroethane-d4 (Surr)	95		69 - 120	02/24/12 15:00	02/29/12 14:24	1
Toluene-d8 (Surr)	91		69 - 122	02/24/12 15:00	02/29/12 14:24	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Acenaphthylene	<0.036		0.036	0.0093	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-36-B01**

**Lab Sample ID: 500-44466-10**

**Date Collected: 02/24/12 15:00**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 80.0**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-36-B01**

**Lab Sample ID: 500-44466-10**

Date Collected: 02/24/12 15:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 80.0

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/29/12 07:07	03/05/12 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		27 - 113	02/29/12 07:07	03/05/12 22:36	1
2-Fluorophenol	64		30 - 110	02/29/12 07:07	03/05/12 22:36	1
Nitrobenzene-d5	67		22 - 110	02/29/12 07:07	03/05/12 22:36	1
Phenol-d5	67		26 - 112	02/29/12 07:07	03/05/12 22:36	1
Terphenyl-d14	79		33 - 129	02/29/12 07:07	03/05/12 22:36	1
2,4,6-Tribromophenol	82		30 - 137	02/29/12 07:07	03/05/12 22:36	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:42	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.010	mg/L		03/06/12 09:00	03/06/12 18:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 18:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 18:42	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:42	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 18:42	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:42	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 18:42	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:42	1
Zinc	<0.10		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 18:42	1
<b>Iron</b>	<b>1.4</b>		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 18:42	1
<b>Boron</b>	<b>0.056</b>	<b>J B</b>	0.10	0.050	mg/L		03/06/12 09:00	03/06/12 18:42	1
<b>Manganese</b>	<b>0.025</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 18:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 18:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Arsenic</b>	<b>5.6</b>		0.62	0.14	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Barium</b>	<b>69</b>		0.62	0.074	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Beryllium</b>	<b>0.63</b>		0.25	0.018	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
Cadmium	<0.12		0.12	0.031	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Chromium</b>	<b>14</b>		0.62	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Copper</b>	<b>7.4</b>		0.62	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Lead</b>	<b>9.7</b>		0.31	0.11	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Nickel</b>	<b>9.7</b>		0.62	0.14	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Selenium</b>	<b>0.48</b>	<b>J</b>	0.62	0.18	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Thallium</b>	<b>0.28</b>	<b>J</b>	0.62	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Zinc</b>	<b>30</b>		1.2	0.43	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Sodium</b>	<b>240</b>		62	11	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Potassium</b>	<b>840</b>		31	3.5	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
<b>Calcium</b>	<b>1500</b>		12	2.2	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-36-B01**

**Lab Sample ID: 500-44466-10**

Date Collected: 02/24/12 15:00

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 80.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000		12	5.4	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
Vanadium	26		0.31	0.047	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
Magnesium	2100		6.2	1.2	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
Boron	1.5	J	3.1	0.58	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
Manganese	480		0.62	0.088	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1
Cobalt	7.3		0.31	0.033	mg/Kg	☼	03/01/12 17:40	03/03/12 03:22	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/09/12 12:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:38	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 13:03	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.021	0.0063	mg/Kg	☼	02/28/12 13:45	02/29/12 10:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.25		0.200	0.200	SU			03/06/12 13:36	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com		Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other Sampler: _____		COC No. <u>1</u> of <u>2</u> Lab Job No. <u>500-44466</u> Sample Temp. <u>3.1</u>									
<b>ANALYSES</b>															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	BTEX & MTBE	PNAS	Pesticides	PCBS	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-25-B02	2/24/12	9:00	S	✓					✓	✓	✓	✓		0-6'
2	915B-25-B02 DUP	2/24	9:30	S	✓					✓	✓	✓	✓		0-6'
3	915B-25-B03	2/24	10:00	S	✓					✓	✓	✓	✓		0-6'
4	915B-28-B01	2/24	10:30	S	✓					✓	✓	✓	✓		0-6'
5	915B-29-B01	2/24	11:00	S	✓					✓	✓	✓	✓		0-10'
6	915B-27-B01	2/24	12:30	S	✓					✓	✓	✓	✓		0-5'
7	915B-29-B02	2/24	1:00	S	✓					✓	✓	✓	✓		0-10'
8	915B-30-B01	2/24	1:10	S	✓					✓	✓	✓	✓		0-6'
9	915B-30-B02	2/24	1:30	S	✓					✓	✓	✓	✓		0-6'
10	915B-36-B01	2/24	3:00	S	✓					✓	✓	✓	✓		0-6'
11	915B-29-B03	2/24	3:15	S	✓					✓	✓	✓	✓		0-10'
12	915B-29-B03 DUP	2/24	3:15	S	✓					✓	✓	✓	✓		0-10'
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u> Date/Time <u>2/24/12 16:30</u> Relinquished by: <u>[Signature]</u> Date/Time <u>2/24/12 18:50</u> Relinquished by: <u>[Signature]</u> Date/Time <u>2/24/12 18:50</u>									

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.





CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

**Project Name:** RTE 14  
**Project No.:** IDOT2011-032  
**TAT:**  5 BD  10 BD  5 BD  2 BD  Other

**Analyses**

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization
B	915B-37-B01	2/29/12	3:45	S	✓	✓					✓	✓	✓	✓	

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**Comments**  
 0-6

**Relinquished by:** [Signature] Date/Time: 2/29/12 16:30  
**Received by:** [Signature] Date/Time: 2/29/12 16:30  
**Relinquished by:** [Signature] Date/Time: 2/29/12 18:50  
**Received by:** [Signature] Date/Time: 2/29/12 18:50  
**Relinquished by:** [Signature] Date/Time: [Signature] Date/Time: [Signature] Date/Time:

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**Comments**  
 0-6

**Sample Temp:**

September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091087

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13091087

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091087

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091087-001

Client Sample ID: 915B-36-B01

Matrix: SOLID

Collection Date: 09/20/2013 11:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.0443</b>	mg/L	1	09/30/2013 10:19	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.4</b>	mg/L	1	09/25/2013 15:06	92207







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

2250 Lake Shore Drive

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.28260 Longitude: -88.40837

(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.28260 Longitude: -88.40837

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):

LOCATION 915B-37-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-37. SEE FIGURE 5 AND TABLE af OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44466-1

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Steven Gobelman, P.E., L.P.G. (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))*

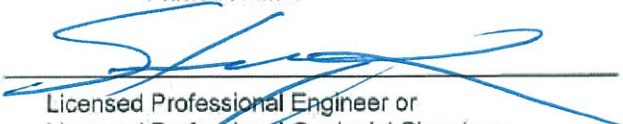
Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

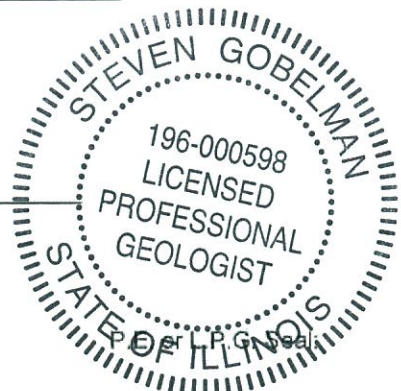
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/8/14  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-37  
City of Woodstock**

<b>Sample ID</b>	915B-37-B01							
<b>Sample Depth (ft)</b>	0-6							
<b>Sample Date</b>	2/24/2012							
<b>PID</b>	0							
<b>Sample pH</b>	7.58							
<b>Matrix</b>	Soil							
<b>No Contaminants of Concern Noted.</b>								
		<sup>1</sup> Most Stringent MAC	<sup>2</sup> Outside a Populated Area MAC	<sup>3</sup> Populated non- Metropolitan Statistical Area MAC	<sup>4</sup> Within Chicago Corporate Limits MAC	<sup>5</sup> Metropolitan Statistical Area MAC	<sup>6</sup> Class I Soil TCLP/SPLP Comparisons Only	

# 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: 500-44466-1

TestAmerica Sample Delivery Group: 500-44466-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:14:38 PM

Jodie Bracken

Data Delivery Analyst

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-37-B01**

**Lab Sample ID: 500-44466-13**

Date Collected: 02/24/12 15:45

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 81.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1
Xylenes, Total	<0.0098		0.0098	0.00069	mg/Kg	☼	02/24/12 15:45	02/29/12 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		67 - 120	02/24/12 15:45	02/29/12 15:39	1
Dibromofluoromethane	96		69 - 120	02/24/12 15:45	02/29/12 15:39	1
1,2-Dichloroethane-d4 (Surr)	91		69 - 120	02/24/12 15:45	02/29/12 15:39	1
Toluene-d8 (Surr)	89		69 - 122	02/24/12 15:45	02/29/12 15:39	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Anthracene	<0.040		0.040	0.0093	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Benzo[a]pyrene	<0.040		0.040	0.0072	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-37-B01**

**Lab Sample ID: 500-44466-13**

**Date Collected: 02/24/12 15:45**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 81.2**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.096	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-37-B01**

**Lab Sample ID: 500-44466-13**

**Date Collected: 02/24/12 15:45**

**Matrix: Solid**

**Date Received: 02/25/12 07:00**

**Percent Solids: 81.2**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/29/12 07:07	03/06/12 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		27 - 113	02/29/12 07:07	03/06/12 13:42	1
2-Fluorophenol	63		30 - 110	02/29/12 07:07	03/06/12 13:42	1
Nitrobenzene-d5	70		22 - 110	02/29/12 07:07	03/06/12 13:42	1
Phenol-d5	67		26 - 112	02/29/12 07:07	03/06/12 13:42	1
Terphenyl-d14	80		33 - 129	02/29/12 07:07	03/06/12 13:42	1
2,4,6-Tribromophenol	90		30 - 137	02/29/12 07:07	03/06/12 13:42	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 19:00	1
<b>Barium</b>	<b>0.76</b>		0.50	0.010	mg/L		03/06/12 09:00	03/06/12 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/12 09:00	03/06/12 19:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/12 09:00	03/06/12 19:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 19:00	1
Copper	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 19:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/06/12 09:00	03/06/12 19:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 19:00	1
Selenium	<0.050		0.050	0.010	mg/L		03/06/12 09:00	03/06/12 19:00	1
Silver	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 19:00	1
<b>Zinc</b>	<b>0.029 J</b>		0.10	0.020	mg/L		03/06/12 09:00	03/06/12 19:00	1
Iron	<0.20		0.20	0.20	mg/L		03/06/12 09:00	03/06/12 19:00	1
<b>Boron</b>	<b>0.79 B</b>		0.10	0.050	mg/L		03/06/12 09:00	03/06/12 19:00	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		03/06/12 09:00	03/06/12 19:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/06/12 09:00	03/06/12 19:00	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Arsenic</b>	<b>7.5</b>		0.58	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Barium</b>	<b>94</b>		0.58	0.069	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Beryllium</b>	<b>0.71</b>		0.23	0.017	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Cadmium</b>	<b>0.039 J</b>		0.12	0.029	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Chromium</b>	<b>16</b>		0.58	0.097	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Copper</b>	<b>15</b>		0.58	0.16	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Lead</b>	<b>11</b>		0.29	0.10	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Nickel</b>	<b>16</b>		0.58	0.13	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Selenium</b>	<b>0.23 J</b>		0.58	0.17	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Thallium</b>	<b>0.36 J</b>		0.58	0.15	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Zinc</b>	<b>34</b>		1.2	0.40	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Sodium</b>	<b>74</b>		58	11	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Potassium</b>	<b>770</b>		29	3.3	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
<b>Calcium</b>	<b>4800</b>		12	2.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

**Client Sample ID: 915B-37-B01**

**Lab Sample ID: 500-44466-13**

Date Collected: 02/24/12 15:45

Matrix: Solid

Date Received: 02/25/12 07:00

Percent Solids: 81.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000		12	5.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
Vanadium	29		0.29	0.044	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
Magnesium	3900		5.8	1.1	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
Boron	2.0	J	2.9	0.54	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
Manganese	480		0.58	0.082	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1
Cobalt	9.7		0.29	0.031	mg/Kg	☼	03/01/12 17:40	03/03/12 03:41	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/06/12 09:00	03/09/12 12:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/06/12 09:00	03/08/12 12:41	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 08:40	03/07/12 13:08	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.019	0.0058	mg/Kg	☼	02/28/12 13:45	02/29/12 10:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58		0.200	0.200	SU			03/06/12 13:46	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44466-1  
SDG: 500-44466-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>ATE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No. <u>1</u> of <u>2</u> Lab Job No. <u>500-44466</u> Sample Temp. <u>3.1</u>											
<b>ANALYSES</b>																	
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs <input checked="" type="checkbox"/>	SVOCs <input checked="" type="checkbox"/>	BETX & MTBE <input type="checkbox"/>	PNAS <input type="checkbox"/>	Pesticides <input type="checkbox"/>	PCBs <input type="checkbox"/>	Total Metals <input checked="" type="checkbox"/>	TCLP/SPLP Metals <input checked="" type="checkbox"/>	pH <input checked="" type="checkbox"/>	% Solids <input checked="" type="checkbox"/>	Waste Characterization <input type="checkbox"/>	Comments <input type="checkbox"/>	
1	915B-25-B02	2/24/12	9:00	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-6'
2	915B-25-B02 DUP	2/24	9:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-6'
3	915B-25-B03	2/24	10:00	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-6'
4	915B-28-B01	2/24	10:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-6'
5	915B-29-B01	2/24	11:00	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-10'
6	915B-27-B01	2/24	12:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-5'
7	915B-29-B02	2/24	1:00	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-10'
8	915B-30-B01	2/24	1:10	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-6'
9	915B-30-B02	2/24	1:30	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-6'
10	915B-36-B01	2/24	3:00	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-6'
11	915B-29-B03	2/27	3:15	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-10'
12	915B-29-B03 DUP	2/27	3:15	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0-10'
Relinquished by:					Date/Time	Received by: <u>[Signature]</u> Date/Time: <u>2/24/12 16:30</u>											
Relinquished by:					Date/Time	Received by: <u>[Signature]</u> Date/Time: <u>2/27/12 18:50</u>											
Relinquished by:					Date/Time	Received by: <u>[Signature]</u> Date/Time: <u>2/25/12 07:00</u>											

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: <u>RTE 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	COC No.: <u>2</u> of <u>2</u> Lab Job No.: <u>500-44466</u> Sample Temp: _____								
<b>ANALYSES</b>											
	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization
Lab ID	Sample ID	Sample Date	Sample Time	Matrix							
B	915B-37-B01	2/29/12	3:45	S	✓	✓	✓	✓	✓	✓	✓
Relinquished by: <u>[Signature]</u> Date/Time: <u>2/29/12 16:30</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>2/29/12 18:50</u> Relinquished by: _____ Date/Time: _____											
Received by: <u>[Signature]</u> Date/Time: <u>2/29/12 16:30</u> Received by: <u>[Signature]</u> Date/Time: <u>2/25/12 0700</u> Received by: _____ Date/Time: _____											
<b>Matrix Key:</b> W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other											
Comments: <u>0-6</u>											

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*if TCLP result exceeds Class I Standard, run SPLP for that specific parameter.



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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

2200 Lake Shore Drive

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.28444 Longitude: -88.41047

(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: 1110955039 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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.28444 Longitude: -88.41047

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):

LOCATIONS 915B-39-B01 THROUGH -B15 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-39. SEE FIGURE 4 AND TABLE 5ag OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44486-1. TEKLAB, INC. ANALYTICAL REPORT - WORK ORDER NUMBER 13091088

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

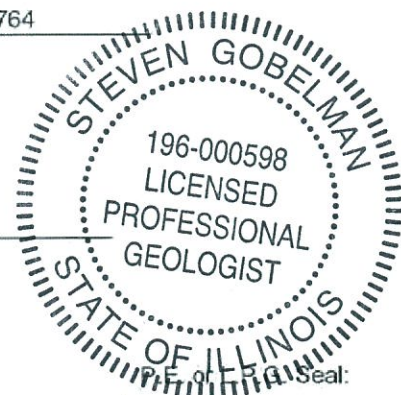
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

7/2/14  
Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.



**ISCS Site 915B-39  
Catalent**

Sample ID	915B-39-B01	915B-39-B02	915B-39-B03	915B-39-B04	915B-39-B04 DUP	915B-39-B05	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6	0-6	0-6	0-6	0-6						
Sample Date	2/27/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012						
PID	0	0	0	0	0	0						
Sample pH	8.34	8.22	8.33	8.13	7.73	7.47						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

Sample ID	915B-39-B06	915B-39-B07	915B-39-B08	915B-39-B09	915B-39-B10	915B-39-B11	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6	0-6	0-6	0-6	0-6						
Sample Date	2/27/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012						
PID	0	0	0	0	0	0						
Sample pH	7.79	8.06	6.97	7.63	8.46	7.85						
Matrix	Soil	Soil	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

Sample ID	915B-39-B12	915B-39-B13	915B-39-B14	915B-39-B14 DUP	915B-39-B15	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-6	0-6	0-6	0-6	0-6						
Sample Date	2/27/2012	2/27/2012	2/27/2012	2/27/2012	2/27/2012						
PID	0	0	0	0	0						
Sample pH	7.8	7.7	8.56	8.4	7.2						
Matrix	Soil	Soil	Soil	Soil	Soil						

**No Contaminants of Concern Noted.**

# 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: 500-44486-1

TestAmerica Sample Delivery Group: 500-44486-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/20/2012 4:17:29 PM

Jodie Bracken

Data Delivery Analyst

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B02**

**Lab Sample ID: 500-44486-1**

Date Collected: 02/27/12 08:50

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Bromoform	<0.0049	*	0.0049	0.00080	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Chloroform	<0.0049		0.0049	0.00091	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1
Xylenes, Total	<0.0098		0.0098	0.00069	mg/Kg	☼	02/27/12 08:50	03/01/12 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	02/27/12 08:50	03/01/12 12:25	1
Dibromofluoromethane	100		73 - 122	02/27/12 08:50	03/01/12 12:25	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	02/27/12 08:50	03/01/12 12:25	1
Toluene-d8 (Surr)	109		72 - 122	02/27/12 08:50	03/01/12 12:25	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Acenaphthylene	<0.037		0.037	0.0094	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Benzo[a]pyrene	<0.041	*	0.041	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
<b>Benzo[b]fluoranthene</b>	<b>0.010</b>	<b>J</b>	0.041	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B02**

**Lab Sample ID: 500-44486-1**

Date Collected: 02/27/12 08:50

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.3

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.041	*	0.041	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
4-Chloroaniline	<0.83		0.83	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B02**

**Lab Sample ID: 500-44486-1**

Date Collected: 02/27/12 08:50

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.3

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Phenol	<0.21		0.21	0.065	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		27 - 113	02/29/12 17:03	03/07/12 18:20	1
2-Fluorophenol	82		30 - 110	02/29/12 17:03	03/07/12 18:20	1
Nitrobenzene-d5	90		22 - 110	02/29/12 17:03	03/07/12 18:20	1
Phenol-d5	90		26 - 112	02/29/12 17:03	03/07/12 18:20	1
Terphenyl-d14	98		33 - 129	02/29/12 17:03	03/07/12 18:20	1
2,4,6-Tribromophenol	114		30 - 137	02/29/12 17:03	03/07/12 18:20	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 11:40	1
<b>Barium</b>	<b>0.54</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 11:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 11:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 11:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:40	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 11:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:40	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 11:40	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 11:40	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 11:40	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 11:40	1
Boron	<0.10		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 11:40	1
<b>Manganese</b>	<b>0.67</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:40	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 11:40	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Arsenic</b>	<b>4.4</b>		0.61	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Barium</b>	<b>35</b>		0.61	0.073	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Beryllium</b>	<b>0.41</b>		0.25	0.018	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Cadmium</b>	<b>0.14</b>		0.12	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Chromium</b>	<b>7.8</b>		0.61	0.10	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Copper</b>	<b>12</b>		0.61	0.17	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Lead</b>	<b>5.1</b>		0.31	0.11	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Nickel</b>	<b>8.2</b>		0.61	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Selenium	<0.61		0.61	0.18	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Thallium	<0.61		0.61	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Zinc</b>	<b>24</b>		1.2	0.42	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Sodium</b>	<b>190</b>		61	11	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Potassium</b>	<b>620</b>		31	3.5	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
<b>Calcium</b>	<b>56000</b>	<b>B</b>	12	2.2	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
 SDG: 500-44486-1

**Client Sample ID: 915B-39-B02**

**Lab Sample ID: 500-44486-1**

Date Collected: 02/27/12 08:50

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10000		12	5.3	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Vanadium	16		0.31	0.047	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Magnesium	34000	B	6.1	1.2	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Boron	2.7	J	3.1	0.57	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Manganese	330		0.61	0.086	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1
Cobalt	3.7		0.31	0.032	mg/Kg	☼	03/02/12 08:55	03/07/12 04:09	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:45	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:09	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0056	mg/Kg	☼	03/02/12 08:55	03/02/12 12:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			03/07/12 17:13	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B01**

**Lab Sample ID: 500-44486-2**

Date Collected: 02/27/12 09:00

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 87.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/27/12 09:00	03/01/12 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		76 - 120	02/27/12 09:00	03/01/12 12:51	1
Dibromofluoromethane	96		73 - 122	02/27/12 09:00	03/01/12 12:51	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/27/12 09:00	03/01/12 12:51	1
Toluene-d8 (Surr)	110		72 - 122	02/27/12 09:00	03/01/12 12:51	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Acenaphthylene	<0.034		0.034	0.0087	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Benzo[a]pyrene	<0.037	*	0.037	0.0069	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B01**

**Lab Sample ID: 500-44486-2**

**Date Collected: 02/27/12 09:00**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 87.5**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037	*	0.037	0.013	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.092	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B01**

**Lab Sample ID: 500-44486-2**

Date Collected: 02/27/12 09:00

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 87.5

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/29/12 17:03	03/09/12 07:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		27 - 113	02/29/12 17:03	03/09/12 07:11	1
2-Fluorophenol	90		30 - 110	02/29/12 17:03	03/09/12 07:11	1
Nitrobenzene-d5	87		22 - 110	02/29/12 17:03	03/09/12 07:11	1
Phenol-d5	94		26 - 112	02/29/12 17:03	03/09/12 07:11	1
Terphenyl-d14	96		33 - 129	02/29/12 17:03	03/09/12 07:11	1
2,4,6-Tribromophenol	94		30 - 137	02/29/12 17:03	03/09/12 07:11	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 11:46	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 11:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 11:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 11:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:46	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:46	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 11:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:46	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 11:46	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 11:46	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 11:46	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 11:46	1
<b>Boron</b>	<b>0.44</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 11:46	1
<b>Manganese</b>	<b>0.76</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 11:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 11:46	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Arsenic</b>	<b>2.2</b>		0.55	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Barium</b>	<b>11</b>		0.55	0.065	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Beryllium</b>	<b>0.23</b>		0.22	0.016	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.027	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Chromium</b>	<b>3.8</b>		0.55	0.091	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Copper</b>	<b>8.0</b>		0.55	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Lead</b>	<b>2.8</b>		0.27	0.094	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Nickel</b>	<b>4.2</b>		0.55	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Zinc</b>	<b>14</b>		1.1	0.37	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Sodium</b>	<b>220</b>		55	10	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Potassium</b>	<b>430</b>		27	3.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
<b>Calcium</b>	<b>78000</b>	<b>B E</b>	11	1.9	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B01**

**Lab Sample ID: 500-44486-2**

Date Collected: 02/27/12 09:00

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 87.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5600		11	4.7	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Vanadium	9.0		0.27	0.041	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Magnesium	39000	B	5.5	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Boron	4.8		2.7	0.51	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Manganese	200		0.55	0.077	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1
Cobalt	1.8		0.27	0.029	mg/Kg	☼	03/02/12 08:55	03/07/12 04:15	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:46	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:14	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0051	mg/Kg	☼	03/02/12 08:55	03/02/12 12:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			03/07/12 17:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B03**

**Lab Sample ID: 500-44486-3**

Date Collected: 02/27/12 09:35

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 85.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0021	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Benzene	<0.0044		0.0044	0.00047	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Bromoform	<0.0044	*	0.0044	0.00071	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Bromomethane	<0.0044		0.0044	0.00094	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
2-Butanone (MEK)	<0.0044		0.0044	0.00095	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Carbon disulfide	<0.0044		0.0044	0.00062	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Carbon tetrachloride	<0.0044		0.0044	0.00096	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Chlorobenzene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Chloroethane	<0.0044		0.0044	0.00092	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00064	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,1-Dichloroethene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,2-Dichloropropane	<0.0044		0.0044	0.00099	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
2-Hexanone	<0.0044		0.0044	0.00062	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Styrene	<0.0044		0.0044	0.00055	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Tetrachloroethene	<0.0044		0.0044	0.00083	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Toluene	<0.0044		0.0044	0.00085	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Trichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Vinyl chloride	<0.0044		0.0044	0.00061	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1
Xylenes, Total	<0.0088		0.0088	0.00061	mg/Kg	☼	02/27/12 09:03	03/01/12 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/27/12 09:03	03/01/12 13:17	1
Dibromofluoromethane	98		73 - 122	02/27/12 09:03	03/01/12 13:17	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/27/12 09:03	03/01/12 13:17	1
Toluene-d8 (Surr)	108		72 - 122	02/27/12 09:03	03/01/12 13:17	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Acenaphthylene	<0.034		0.034	0.0086	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Benzo[a]pyrene	<0.037	*	0.037	0.0068	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B03**

**Lab Sample ID: 500-44486-3**

Date Collected: 02/27/12 09:35

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 85.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037	*	0.037	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B03**

**Lab Sample ID: 500-44486-3**

Date Collected: 02/27/12 09:35

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 85.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		27 - 113	02/29/12 17:03	03/07/12 19:00	1
2-Fluorophenol	81		30 - 110	02/29/12 17:03	03/07/12 19:00	1
Nitrobenzene-d5	88		22 - 110	02/29/12 17:03	03/07/12 19:00	1
Phenol-d5	85		26 - 112	02/29/12 17:03	03/07/12 19:00	1
Terphenyl-d14	94		33 - 129	02/29/12 17:03	03/07/12 19:00	1
2,4,6-Tribromophenol	101		30 - 137	02/29/12 17:03	03/07/12 19:00	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:07	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 12:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 12:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 12:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:07	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 12:07	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:07	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:07	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:07	1
<b>Zinc</b>	<b>0.021</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 12:07	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 12:07	1
<b>Boron</b>	<b>0.72</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 12:07	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:07	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:07	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Arsenic</b>	<b>4.5</b>		0.57	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Barium</b>	<b>21</b>		0.57	0.068	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Beryllium</b>	<b>0.53</b>		0.23	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.028	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Chromium</b>	<b>9.8</b>		0.57	0.096	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Copper</b>	<b>15</b>		0.57	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Lead</b>	<b>4.0</b>		0.29	0.099	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Nickel</b>	<b>9.8</b>		0.57	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Zinc</b>	<b>28</b>		1.1	0.39	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Sodium</b>	<b>320</b>		57	10	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Potassium</b>	<b>950</b>		29	3.2	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
<b>Calcium</b>	<b>77000</b>	<b>B E</b>	11	2.0	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B03**

**Lab Sample ID: 500-44486-3**

Date Collected: 02/27/12 09:35

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 85.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		11	5.0	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Vanadium	19		0.29	0.044	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Magnesium	42000	B	5.7	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Boron	4.1		2.9	0.53	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Manganese	310		0.57	0.081	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1
Cobalt	3.2		0.29	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 04:36	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:47	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:20	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0052	mg/Kg	☼	03/02/12 08:55	03/02/12 12:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU			03/07/12 17:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04**

**Lab Sample ID: 500-44486-4**

Date Collected: 02/27/12 09:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0024	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Benzene	<0.0050		0.0050	0.00053	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Bromodichloromethane	<0.0050		0.0050	0.00075	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Bromoform	<0.0050	*	0.0050	0.00080	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Carbon disulfide	<0.0050		0.0050	0.00070	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Chlorobenzene	<0.0050		0.0050	0.00078	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Chloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Chloroform	<0.0050		0.0050	0.00091	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Chloromethane	<0.0050		0.0050	0.00081	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00072	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00056	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Dibromochloromethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,2-Dichloroethane	<0.0050		0.0050	0.00050	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,1-Dichloroethene	<0.0050		0.0050	0.00078	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00056	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Ethylbenzene	<0.0050		0.0050	0.00074	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
2-Hexanone	<0.0050		0.0050	0.00070	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00084	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00074	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Styrene	<0.0050		0.0050	0.00062	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Tetrachloroethene	<0.0050		0.0050	0.00094	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Toluene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00095	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00066	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Trichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Vinyl chloride	<0.0050		0.0050	0.00069	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1
Xylenes, Total	<0.0099		0.0099	0.00069	mg/Kg	☼	02/27/12 09:45	03/01/12 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/27/12 09:45	03/01/12 13:43	1
Dibromofluoromethane	95		73 - 122	02/27/12 09:45	03/01/12 13:43	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/27/12 09:45	03/01/12 13:43	1
Toluene-d8 (Surr)	106		72 - 122	02/27/12 09:45	03/01/12 13:43	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Acenaphthylene	<0.037		0.037	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Benzo[a]pyrene	<0.040	*	0.040	0.0074	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04**

**Lab Sample ID: 500-44486-4**

**Date Collected: 02/27/12 09:45**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 80.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040	*	0.040	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04**

**Lab Sample ID: 500-44486-4**

Date Collected: 02/27/12 09:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.9

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		27 - 113	02/29/12 17:03	03/07/12 19:20	1
2-Fluorophenol	81		30 - 110	02/29/12 17:03	03/07/12 19:20	1
Nitrobenzene-d5	90		22 - 110	02/29/12 17:03	03/07/12 19:20	1
Phenol-d5	86		26 - 112	02/29/12 17:03	03/07/12 19:20	1
Terphenyl-d14	98		33 - 129	02/29/12 17:03	03/07/12 19:20	1
2,4,6-Tribromophenol	106		30 - 137	02/29/12 17:03	03/07/12 19:20	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:13	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 12:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 12:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 12:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:13	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 12:13	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:13	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:13	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:13	1
<b>Zinc</b>	<b>0.021</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 12:13	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 12:13	1
<b>Boron</b>	<b>0.73</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 12:13	1
<b>Manganese</b>	<b>0.77</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Arsenic</b>	<b>4.5</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Barium</b>	<b>31</b>		0.59	0.070	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Beryllium</b>	<b>0.34</b>		0.24	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Cadmium</b>	<b>0.21</b>		0.12	0.029	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Chromium</b>	<b>5.9</b>		0.59	0.098	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Copper</b>	<b>17</b>		0.59	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Lead</b>	<b>3.9</b>		0.29	0.10	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Nickel</b>	<b>8.8</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Zinc</b>	<b>34</b>		1.2	0.40	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Sodium</b>	<b>330</b>		59	11	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Potassium</b>	<b>580</b>		29	3.3	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
<b>Calcium</b>	<b>96000</b>	<b>B E</b>	12	2.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04**

**Lab Sample ID: 500-44486-4**

Date Collected: 02/27/12 09:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9500		12	5.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Vanadium	17		0.29	0.045	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Magnesium	48000	B	5.9	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Boron	5.4		2.9	0.55	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Manganese	420		0.59	0.083	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1
Cobalt	3.1		0.29	0.031	mg/Kg	☼	03/02/12 08:55	03/07/12 04:42	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:48	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:22	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0056	mg/Kg	☼	03/02/12 08:55	03/02/12 12:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			03/07/12 17:30	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04 DUP**

**Lab Sample ID: 500-44486-5**

Date Collected: 02/27/12 09:55

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0023	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Benzene	<0.0048		0.0048	0.00052	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Bromodichloromethane	<0.0048		0.0048	0.00073	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Bromoform	<0.0048	*	0.0048	0.00078	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Bromomethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
2-Butanone (MEK)	<0.0048		0.0048	0.0010	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Carbon disulfide	<0.0048		0.0048	0.00068	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Chlorobenzene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Chloroethane	<0.0048		0.0048	0.0010	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Chloroform	<0.0048		0.0048	0.00088	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Chloromethane	<0.0048		0.0048	0.00078	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00070	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00055	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Dibromochloromethane	<0.0048		0.0048	0.00066	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,2-Dichloroethane	<0.0048		0.0048	0.00049	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,1-Dichloroethene	<0.0048		0.0048	0.00076	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,2-Dichloropropane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00055	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Ethylbenzene	<0.0048		0.0048	0.00072	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
2-Hexanone	<0.0048		0.0048	0.00068	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00081	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00072	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Styrene	<0.0048		0.0048	0.00060	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Tetrachloroethene	<0.0048		0.0048	0.00091	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Toluene	<0.0048		0.0048	0.00093	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00064	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Trichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Vinyl chloride	<0.0048		0.0048	0.00067	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1
Xylenes, Total	<0.0096		0.0096	0.00067	mg/Kg	☼	02/27/12 09:55	03/01/12 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	02/27/12 09:55	03/01/12 14:08	1
Dibromofluoromethane	96		73 - 122	02/27/12 09:55	03/01/12 14:08	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	02/27/12 09:55	03/01/12 14:08	1
Toluene-d8 (Surr)	109		72 - 122	02/27/12 09:55	03/01/12 14:08	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Acenaphthylene	<0.036		0.036	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Benzo[a]pyrene	<0.039	*	0.039	0.0072	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04 DUP**

**Lab Sample ID: 500-44486-5**

**Date Collected: 02/27/12 09:55**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 82.6**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Hexachlorobenzene	<0.079		0.079	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04 DUP**

**Lab Sample ID: 500-44486-5**

Date Collected: 02/27/12 09:55

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.6

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		27 - 113	02/29/12 17:03	03/07/12 19:39	1
2-Fluorophenol	88		30 - 110	02/29/12 17:03	03/07/12 19:39	1
Nitrobenzene-d5	100		22 - 110	02/29/12 17:03	03/07/12 19:39	1
Phenol-d5	92		26 - 112	02/29/12 17:03	03/07/12 19:39	1
Terphenyl-d14	115		33 - 129	02/29/12 17:03	03/07/12 19:39	1
2,4,6-Tribromophenol	112		30 - 137	02/29/12 17:03	03/07/12 19:39	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:19	1
<b>Barium</b>	<b>0.57</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 12:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 12:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 12:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:19	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 12:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:19	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:19	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:19	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 12:19	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 12:19	1
<b>Boron</b>	<b>0.62</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 12:19	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Arsenic</b>	<b>4.7</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Barium</b>	<b>27</b>		0.59	0.070	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Beryllium</b>	<b>0.38</b>		0.23	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Cadmium</b>	<b>0.17</b>		0.12	0.029	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Chromium</b>	<b>7.2</b>		0.59	0.098	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Copper</b>	<b>15</b>		0.59	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Lead</b>	<b>4.8</b>		0.29	0.10	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Nickel</b>	<b>8.1</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Zinc</b>	<b>23</b>		1.2	0.40	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Sodium</b>	<b>300</b>		59	11	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Potassium</b>	<b>640</b>		29	3.3	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
<b>Calcium</b>	<b>90000</b>	<b>B E</b>	12	2.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B04 DUP**

**Lab Sample ID: 500-44486-5**

Date Collected: 02/27/12 09:55

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10000		12	5.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Vanadium	16		0.29	0.045	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Magnesium	55000	B	5.9	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Boron	4.1		2.9	0.55	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Manganese	290		0.59	0.083	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1
Cobalt	3.6		0.29	0.031	mg/Kg	☼	03/02/12 08:55	03/07/12 04:48	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:49	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.018	0.0055	mg/Kg	☼	03/02/12 08:55	03/02/12 12:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			03/07/12 17:35	1

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Client: Andrews Engineering Inc.  
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TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B05**

**Lab Sample ID: 500-44486-6**

Date Collected: 02/27/12 10:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.7

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Bromoform	<0.0049	*	0.0049	0.00080	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1
Xylenes, Total	<0.0098		0.0098	0.00069	mg/Kg	☼	02/27/12 10:05	03/01/12 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/27/12 10:05	03/01/12 14:34	1
Dibromofluoromethane	98		73 - 122	02/27/12 10:05	03/01/12 14:34	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	02/27/12 10:05	03/01/12 14:34	1
Toluene-d8 (Surr)	109		72 - 122	02/27/12 10:05	03/01/12 14:34	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Benzo[a]pyrene	<0.039	*	0.039	0.0071	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1

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SDG: 500-44486-1

**Client Sample ID: 915B-39-B05**

**Lab Sample ID: 500-44486-6**

Date Collected: 02/27/12 10:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.7

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1



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SDG: 500-44486-1

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**Lab Sample ID: 500-44486-6**

Date Collected: 02/27/12 10:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.7

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		27 - 113	02/29/12 17:03	03/07/12 19:58	1
2-Fluorophenol	75		30 - 110	02/29/12 17:03	03/07/12 19:58	1
Nitrobenzene-d5	81		22 - 110	02/29/12 17:03	03/07/12 19:58	1
Phenol-d5	82		26 - 112	02/29/12 17:03	03/07/12 19:58	1
Terphenyl-d14	84		33 - 129	02/29/12 17:03	03/07/12 19:58	1
2,4,6-Tribromophenol	94		30 - 137	02/29/12 17:03	03/07/12 19:58	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:26	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 12:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 12:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 12:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:26	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 12:26	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:26	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:26	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:26	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 12:26	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 12:26	1
<b>Boron</b>	<b>0.65</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 12:26	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:26	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Arsenic</b>	<b>7.6</b>		0.62	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Barium</b>	<b>110</b>		0.62	0.073	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Beryllium</b>	<b>0.83</b>		0.25	0.018	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Cadmium	<0.12		0.12	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Chromium</b>	<b>18</b>		0.62	0.10	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Copper</b>	<b>15</b>		0.62	0.17	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Lead</b>	<b>11</b>		0.31	0.11	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Nickel</b>	<b>15</b>		0.62	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Selenium</b>	<b>0.59</b>	<b>J</b>	0.62	0.18	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Thallium	<0.62		0.62	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Zinc</b>	<b>41</b>		1.2	0.42	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Sodium</b>	<b>120</b>		62	11	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Potassium</b>	<b>820</b>		31	3.5	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
<b>Calcium</b>	<b>3700</b>	<b>B</b>	12	2.2	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B05**

**Lab Sample ID: 500-44486-6**

Date Collected: 02/27/12 10:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 80.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000		12	5.3	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Vanadium	34		0.31	0.047	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Magnesium	3800	B	6.2	1.2	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Boron	1.8	J	3.1	0.57	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Manganese	350		0.62	0.087	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1
Cobalt	7.1		0.31	0.032	mg/Kg	☼	03/02/12 08:55	03/07/12 04:55	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:50	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:25	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.0062	mg/Kg	☼	03/02/12 08:55	03/02/12 12:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			03/07/12 17:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B06**

**Lab Sample ID: 500-44486-7**

Date Collected: 02/27/12 10:15

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 84.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/27/12 10:15	03/01/12 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		76 - 120	02/27/12 10:15	03/01/12 15:00	1
Dibromofluoromethane	97		73 - 122	02/27/12 10:15	03/01/12 15:00	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/27/12 10:15	03/01/12 15:00	1
Toluene-d8 (Surr)	108		72 - 122	02/27/12 10:15	03/01/12 15:00	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Acenaphthylene	<0.035		0.035	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Benzo[a]pyrene	<0.038	*	0.038	0.0070	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B06**

**Lab Sample ID: 500-44486-7**

**Date Collected: 02/27/12 10:15**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 84.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038	*	0.038	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B06**

**Lab Sample ID: 500-44486-7**

Date Collected: 02/27/12 10:15

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 84.9

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		27 - 113	02/29/12 17:03	03/07/12 20:17	1
2-Fluorophenol	82		30 - 110	02/29/12 17:03	03/07/12 20:17	1
Nitrobenzene-d5	94		22 - 110	02/29/12 17:03	03/07/12 20:17	1
Phenol-d5	89		26 - 112	02/29/12 17:03	03/07/12 20:17	1
Terphenyl-d14	97		33 - 129	02/29/12 17:03	03/07/12 20:17	1
2,4,6-Tribromophenol	100		30 - 137	02/29/12 17:03	03/07/12 20:17	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:32	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 12:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 12:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 12:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:32	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 12:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:32	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:32	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:32	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 12:32	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 12:32	1
<b>Boron</b>	<b>0.60</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 12:32	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:32	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Arsenic</b>	<b>3.7</b>		0.57	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Barium</b>	<b>15</b>		0.57	0.068	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Beryllium</b>	<b>0.28</b>		0.23	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Cadmium</b>	<b>0.14</b>		0.11	0.028	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Chromium</b>	<b>4.7</b>		0.57	0.096	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Copper</b>	<b>9.8</b>		0.57	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Lead</b>	<b>3.4</b>		0.29	0.099	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Nickel</b>	<b>5.5</b>		0.57	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Zinc</b>	<b>21</b>		1.1	0.39	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Sodium</b>	<b>180</b>		57	11	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Potassium</b>	<b>440</b>		29	3.3	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
<b>Calcium</b>	<b>82000</b>	<b>B E</b>	11	2.0	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B06**

**Lab Sample ID: 500-44486-7**

Date Collected: 02/27/12 10:15

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 84.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7600		11	5.0	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Vanadium	12		0.29	0.044	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Magnesium	44000	B	5.7	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Boron	3.5		2.9	0.54	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Manganese	310		0.57	0.081	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1
Cobalt	2.2		0.29	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 05:01	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:50	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:27	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0052	mg/Kg	☼	03/02/12 08:55	03/02/12 12:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			03/07/12 17:46	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B07**

**Lab Sample ID: 500-44486-8**

Date Collected: 02/27/12 10:25

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/27/12 10:25	03/01/12 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	02/27/12 10:25	03/01/12 15:26	1
Dibromofluoromethane	99		73 - 122	02/27/12 10:25	03/01/12 15:26	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	02/27/12 10:25	03/01/12 15:26	1
Toluene-d8 (Surr)	110		72 - 122	02/27/12 10:25	03/01/12 15:26	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Benzo[a]pyrene	<0.039	*	0.039	0.0071	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B07**

**Lab Sample ID: 500-44486-8**

**Date Collected: 02/27/12 10:25**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 82.6**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B07**

**Lab Sample ID: 500-44486-8**

Date Collected: 02/27/12 10:25

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.6

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113	02/29/12 17:03	03/07/12 20:36	1
2-Fluorophenol	69		30 - 110	02/29/12 17:03	03/07/12 20:36	1
Nitrobenzene-d5	77		22 - 110	02/29/12 17:03	03/07/12 20:36	1
Phenol-d5	73		26 - 112	02/29/12 17:03	03/07/12 20:36	1
Terphenyl-d14	83		33 - 129	02/29/12 17:03	03/07/12 20:36	1
2,4,6-Tribromophenol	87		30 - 137	02/29/12 17:03	03/07/12 20:36	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:57	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 12:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 12:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 12:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:57	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 12:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:57	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 12:57	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:57	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 12:57	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 12:57	1
<b>Boron</b>	<b>0.66</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 12:57	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 12:57	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 12:57	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Arsenic</b>	<b>2.8</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Barium</b>	<b>5.6</b>		0.59	0.070	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Beryllium</b>	<b>0.15</b>	<b>J</b>	0.23	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Cadmium</b>	<b>0.10</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Chromium</b>	<b>3.3</b>		0.59	0.098	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Copper</b>	<b>5.4</b>		0.59	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Lead</b>	<b>2.9</b>		0.29	0.10	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Nickel</b>	<b>2.9</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Zinc</b>	<b>9.3</b>		1.2	0.40	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Sodium</b>	<b>190</b>		59	11	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Potassium</b>	<b>560</b>		29	3.3	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
<b>Calcium</b>	<b>91000</b>	<b>B E</b>	12	2.1	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B07**

**Lab Sample ID: 500-44486-8**

Date Collected: 02/27/12 10:25

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3900		12	5.1	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Vanadium	6.7		0.29	0.045	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Magnesium	54000	B	5.9	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Boron	7.2		2.9	0.55	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Manganese	160		0.59	0.083	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1
Cobalt	1.3		0.29	0.031	mg/Kg	☼	03/02/12 08:55	03/07/12 05:32	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:56	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:28	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0061	mg/Kg	☼	03/02/12 08:55	03/02/12 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			03/07/12 17:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B08**

**Lab Sample ID: 500-44486-9**

**Date Collected: 02/27/12 10:30**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 85.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Benzene	<0.0044		0.0044	0.00047	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Bromoform	<0.0044	*	0.0044	0.00071	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Bromomethane	<0.0044		0.0044	0.00094	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
2-Butanone (MEK)	<0.0044		0.0044	0.00095	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Carbon disulfide	<0.0044		0.0044	0.00062	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Carbon tetrachloride	<0.0044		0.0044	0.00096	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Chlorobenzene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Chloroethane	<0.0044		0.0044	0.00092	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Chloromethane	<0.0044		0.0044	0.00072	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00064	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,1-Dichloroethene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,2-Dichloropropane	<0.0044		0.0044	0.00099	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
2-Hexanone	<0.0044		0.0044	0.00062	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Styrene	<0.0044		0.0044	0.00055	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Tetrachloroethene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Toluene	<0.0044		0.0044	0.00085	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Trichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1
Xylenes, Total	<0.0088		0.0088	0.00062	mg/Kg	☼	02/27/12 13:03	03/01/12 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/27/12 13:03	03/01/12 15:52	1
Dibromofluoromethane	101		73 - 122	02/27/12 13:03	03/01/12 15:52	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	02/27/12 13:03	03/01/12 15:52	1
Toluene-d8 (Surr)	108		72 - 122	02/27/12 13:03	03/01/12 15:52	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Acenaphthylene	<0.034		0.034	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
<b>Benzo[a]pyrene</b>	<b>0.013</b>	<b>J *</b>	0.038	0.0070	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
<b>Benzo[b]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B08**

**Lab Sample ID: 500-44486-9**

Date Collected: 02/27/12 10:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 85.3

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J *</b>	0.038	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0086	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
<b>Fluoranthene</b>	<b>0.018</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.013</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B08**

**Lab Sample ID: 500-44486-9**

Date Collected: 02/27/12 10:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 85.3

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
<b>Pyrene</b>	<b>0.016</b>	<b>J</b>	0.038	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113				02/29/12 17:03	03/07/12 20:56	1
2-Fluorophenol	70		30 - 110				02/29/12 17:03	03/07/12 20:56	1
Nitrobenzene-d5	81		22 - 110				02/29/12 17:03	03/07/12 20:56	1
Phenol-d5	78		26 - 112				02/29/12 17:03	03/07/12 20:56	1
Terphenyl-d14	106		33 - 129				02/29/12 17:03	03/07/12 20:56	1
2,4,6-Tribromophenol	107		30 - 137				02/29/12 17:03	03/07/12 20:56	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:03	1
<b>Barium</b>	<b>0.55</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 13:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 13:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 13:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:03	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 13:03	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:03	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:03	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:03	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 13:03	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 13:03	1
<b>Boron</b>	<b>0.66</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 13:03	1
<b>Manganese</b>	<b>0.032</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:03	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Arsenic</b>	<b>2.4</b>		0.54	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Barium</b>	<b>11</b>		0.54	0.064	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Beryllium</b>	<b>0.23</b>		0.21	0.016	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.027	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Chromium</b>	<b>4.3</b>		0.54	0.090	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Copper</b>	<b>7.8</b>		0.54	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Lead</b>	<b>3.3</b>		0.27	0.092	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Nickel</b>	<b>5.2</b>		0.54	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Zinc</b>	<b>16</b>		1.1	0.37	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Sodium</b>	<b>230</b>		54	9.8	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Potassium</b>	<b>500</b>		27	3.0	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
<b>Calcium</b>	<b>100000</b>	<b>B E</b>	11	1.9	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B08**

**Lab Sample ID: 500-44486-9**

Date Collected: 02/27/12 10:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 85.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5300		11	4.7	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Vanadium	7.8		0.27	0.041	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Magnesium	54000	B E	5.4	1.0	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Boron	3.4		2.7	0.50	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Manganese	240		0.54	0.076	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1
Cobalt	2.1		0.27	0.028	mg/Kg	☼	03/02/12 08:55	03/07/12 05:53	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:57	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:30	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0052	mg/Kg	☼	03/02/12 08:55	03/02/12 12:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.97		0.200	0.200	SU			03/07/12 17:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B09**

**Lab Sample ID: 500-44486-10**

Date Collected: 02/27/12 10:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 83.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1
Xylenes, Total	<0.0098		0.0098	0.00069	mg/Kg	☼	02/27/12 10:45	03/01/12 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	02/27/12 10:45	03/01/12 16:19	1
Dibromofluoromethane	98		73 - 122	02/27/12 10:45	03/01/12 16:19	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	02/27/12 10:45	03/01/12 16:19	1
Toluene-d8 (Surr)	110		72 - 122	02/27/12 10:45	03/01/12 16:19	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Benzo[a]pyrene	<0.039	*	0.039	0.0071	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B09**

**Lab Sample ID: 500-44486-10**

Date Collected: 02/27/12 10:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 83.2

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Dimethyl phthalate	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.059	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B09**

**Lab Sample ID: 500-44486-10**

Date Collected: 02/27/12 10:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 83.2

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Phenol	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		27 - 113	02/29/12 17:03	03/07/12 21:15	1
2-Fluorophenol	73		30 - 110	02/29/12 17:03	03/07/12 21:15	1
Nitrobenzene-d5	83		22 - 110	02/29/12 17:03	03/07/12 21:15	1
Phenol-d5	76		26 - 112	02/29/12 17:03	03/07/12 21:15	1
Terphenyl-d14	90		33 - 129	02/29/12 17:03	03/07/12 21:15	1
2,4,6-Tribromophenol	98		30 - 137	02/29/12 17:03	03/07/12 21:15	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:24	1
<b>Barium</b>	<b>0.51</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 13:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 13:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 13:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:24	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 13:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:24	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:24	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:24	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 13:24	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 13:24	1
<b>Boron</b>	<b>0.65</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 13:24	1
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:24	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:24	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Arsenic</b>	<b>4.0</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Barium</b>	<b>25</b>		0.59	0.070	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Beryllium</b>	<b>0.41</b>		0.24	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Cadmium</b>	<b>0.20</b>		0.12	0.029	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Chromium</b>	<b>8.1</b>		0.59	0.098	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Copper</b>	<b>10</b>		0.59	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Lead</b>	<b>4.2</b>		0.29	0.10	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Nickel</b>	<b>7.8</b>		0.59	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Zinc</b>	<b>21</b>		1.2	0.40	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Sodium</b>	<b>230</b>		59	11	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Potassium</b>	<b>720</b>		29	3.3	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
<b>Calcium</b>	<b>110000</b>	<b>B E</b>	12	2.1	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B09**

**Lab Sample ID: 500-44486-10**

Date Collected: 02/27/12 10:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 83.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9400		12	5.1	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Vanadium	14		0.29	0.045	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Magnesium	51000	B	5.9	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Boron	5.6		2.9	0.55	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Manganese	340		0.59	0.083	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1
Cobalt	3.9		0.29	0.031	mg/Kg	☼	03/02/12 08:55	03/07/12 05:59	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:57	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:32	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0055	mg/Kg	☼	03/02/12 08:55	03/02/12 12:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			03/07/12 18:08	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B10**

**Lab Sample ID: 500-44486-11**

Date Collected: 02/27/12 11:00

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 93.4

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0039		0.0039	0.0019	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Benzene	<0.0039		0.0039	0.00042	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Bromodichloromethane	<0.0039		0.0039	0.00059	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Bromoform	<0.0039	*	0.0039	0.00062	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Bromomethane	<0.0039		0.0039	0.00083	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
2-Butanone (MEK)	<0.0039		0.0039	0.00083	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Carbon disulfide	<0.0039		0.0039	0.00055	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Chlorobenzene	<0.0039		0.0039	0.00061	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Chloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Chloroform	<0.0039		0.0039	0.00071	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Chloromethane	<0.0039		0.0039	0.00063	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00056	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00044	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Dibromochloromethane	<0.0039		0.0039	0.00053	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,1-Dichloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,2-Dichloroethane	<0.0039		0.0039	0.00039	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,1-Dichloroethene	<0.0039		0.0039	0.00061	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,2-Dichloropropane	<0.0039		0.0039	0.00087	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.00044	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Ethylbenzene	<0.0039		0.0039	0.00058	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
2-Hexanone	<0.0039		0.0039	0.00055	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Methylene Chloride	<0.0039		0.0039	0.0011	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00066	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00058	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Styrene	<0.0039		0.0039	0.00049	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00052	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Tetrachloroethene	<0.0039		0.0039	0.00073	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Toluene	<0.0039		0.0039	0.00075	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00055	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00074	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00052	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Trichloroethene	<0.0039		0.0039	0.00062	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Vinyl chloride	<0.0039		0.0039	0.00054	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1
Xylenes, Total	<0.0077		0.0077	0.00054	mg/Kg	☼	02/27/12 11:00	03/01/12 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/27/12 11:00	03/01/12 16:44	1
Dibromofluoromethane	97		73 - 122	02/27/12 11:00	03/01/12 16:44	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	02/27/12 11:00	03/01/12 16:44	1
Toluene-d8 (Surr)	108		72 - 122	02/27/12 11:00	03/01/12 16:44	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Acenaphthylene	<0.031		0.031	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Benzo[a]anthracene	<0.034		0.034	0.0073	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
<b>Benzo[a]pyrene</b>	<b>0.0087</b>	<b>J *</b>	0.034	0.0063	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
<b>Benzo[b]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B10**

**Lab Sample ID: 500-44486-11**

**Date Collected: 02/27/12 11:00**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 93.4**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034	*	0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Benzo[k]fluoranthene	<0.034		0.034	0.0083	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2-Chlorophenol	<0.17		0.17	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0097	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Dibenzofuran	<0.17		0.17	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Fluorene	<0.034		0.034	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
3 & 4 Methylphenol	<0.17		0.17	0.066	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B10**

**Lab Sample ID: 500-44486-11**

Date Collected: 02/27/12 11:00

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 93.4

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Phenol	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
Pyrene	<0.034		0.034	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		27 - 113	02/29/12 17:03	03/07/12 21:34	1
2-Fluorophenol	75		30 - 110	02/29/12 17:03	03/07/12 21:34	1
Nitrobenzene-d5	85		22 - 110	02/29/12 17:03	03/07/12 21:34	1
Phenol-d5	82		26 - 112	02/29/12 17:03	03/07/12 21:34	1
Terphenyl-d14	93		33 - 129	02/29/12 17:03	03/07/12 21:34	1
2,4,6-Tribromophenol	94		30 - 137	02/29/12 17:03	03/07/12 21:34	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:30	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 13:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 13:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 13:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:30	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 13:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:30	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:30	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:30	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 13:30	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 13:30	1
<b>Boron</b>	<b>0.70</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 13:30	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:30	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Arsenic</b>	<b>2.3</b>		0.53	0.11	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Barium</b>	<b>9.0</b>		0.53	0.063	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Beryllium</b>	<b>0.24</b>		0.21	0.015	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.026	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Chromium</b>	<b>3.6</b>		0.53	0.088	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Copper</b>	<b>7.9</b>		0.53	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Lead</b>	<b>3.6</b>		0.26	0.090	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Nickel</b>	<b>3.9</b>		0.53	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Silver	<0.26		0.26	0.032	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Zinc</b>	<b>18</b>		1.1	0.36	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Sodium</b>	<b>210</b>		53	9.6	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Potassium</b>	<b>430</b>		26	3.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
<b>Calcium</b>	<b>90000</b>	<b>B E</b>	11	1.9	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B10**

**Lab Sample ID: 500-44486-11**

Date Collected: 02/27/12 11:00

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 93.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5100		11	4.6	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Vanadium	10		0.26	0.040	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Magnesium	44000	B	5.3	1.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Boron	3.3		2.6	0.49	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Manganese	250		0.53	0.074	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1
Cobalt	1.7		0.26	0.028	mg/Kg	☼	03/02/12 08:55	03/07/12 06:05	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:58	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:33	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0050	mg/Kg	☼	03/02/12 08:55	03/02/12 12:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU			03/07/12 18:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B11**

**Lab Sample ID: 500-44486-13**

Date Collected: 02/27/12 11:10

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 84.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0023	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Bromoform	<0.0046	*	0.0046	0.00075	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Bromomethane	<0.0046		0.0046	0.00099	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
2-Butanone (MEK)	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Carbon disulfide	<0.0046		0.0046	0.00066	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Chlorobenzene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Chloroethane	<0.0046		0.0046	0.00097	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Chloroform	<0.0046		0.0046	0.00085	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Chloromethane	<0.0046		0.0046	0.00076	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00053	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Dibromochloromethane	<0.0046		0.0046	0.00064	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,1-Dichloroethene	<0.0046		0.0046	0.00073	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00053	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
2-Hexanone	<0.0046		0.0046	0.00066	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Tetrachloroethene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Toluene	<0.0046		0.0046	0.00090	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00066	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Vinyl chloride	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1
Xylenes, Total	<0.0092		0.0092	0.00065	mg/Kg	☼	02/27/12 11:10	03/01/12 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/27/12 11:10	03/01/12 17:10	1
Dibromofluoromethane	99		73 - 122	02/27/12 11:10	03/01/12 17:10	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	02/27/12 11:10	03/01/12 17:10	1
Toluene-d8 (Surr)	107		72 - 122	02/27/12 11:10	03/01/12 17:10	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Benzo[a]pyrene	<0.039	*	0.039	0.0071	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B11**

**Lab Sample ID: 500-44486-13**

Date Collected: 02/27/12 11:10

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 84.0

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.88</b>		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B11**

**Lab Sample ID: 500-44486-13**

Date Collected: 02/27/12 11:10

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 84.0

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		27 - 113	02/29/12 17:03	03/07/12 21:53	1
2-Fluorophenol	83		30 - 110	02/29/12 17:03	03/07/12 21:53	1
Nitrobenzene-d5	91		22 - 110	02/29/12 17:03	03/07/12 21:53	1
Phenol-d5	92		26 - 112	02/29/12 17:03	03/07/12 21:53	1
Terphenyl-d14	94		33 - 129	02/29/12 17:03	03/07/12 21:53	1
2,4,6-Tribromophenol	99		30 - 137	02/29/12 17:03	03/07/12 21:53	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:36	1
<b>Barium</b>	<b>0.52</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 13:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 13:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 13:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:36	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 13:36	1
<b>Nickel</b>	<b>0.011 J</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:36	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:36	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:36	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 13:36	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 13:36	1
<b>Boron</b>	<b>0.61</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 13:36	1
<b>Manganese</b>	<b>0.69</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:36	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:36	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Arsenic</b>	<b>4.8</b>		0.57	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Barium</b>	<b>12</b>		0.57	0.068	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Beryllium</b>	<b>0.30</b>		0.23	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Cadmium</b>	<b>0.18</b>		0.11	0.028	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Chromium</b>	<b>7.8</b>		0.57	0.096	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Copper</b>	<b>12</b>		0.57	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Lead</b>	<b>17</b>		0.29	0.099	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Nickel</b>	<b>6.2</b>		0.57	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Zinc</b>	<b>21</b>		1.1	0.39	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Sodium</b>	<b>240</b>		57	10	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Potassium</b>	<b>520</b>		29	3.2	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
<b>Calcium</b>	<b>99000 B E</b>		11	2.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B11**

**Lab Sample ID: 500-44486-13**

Date Collected: 02/27/12 11:10

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 84.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8700		11	5.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Vanadium	12		0.29	0.044	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Magnesium	53000	B	5.7	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Boron	5.2		2.9	0.53	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Manganese	260		0.57	0.081	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1
Cobalt	2.6		0.29	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 06:12	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 12:59	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:35	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0054	mg/Kg	☼	03/02/12 08:55	03/02/12 12:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			03/07/12 18:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B12**

**Lab Sample ID: 500-44486-14**

**Date Collected: 02/27/12 11:30**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 92.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0024	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Bromoform	<0.0050		0.0050	0.00081	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Chloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Chloroform	<0.0050		0.0050	0.00092	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Chloromethane	<0.0050		0.0050	0.00082	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00085	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Tetrachloroethene	<0.0050		0.0050	0.00095	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Toluene	<0.0050		0.0050	0.00097	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Trichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/27/12 11:30	03/02/12 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/27/12 11:30	03/02/12 11:31	1
Dibromofluoromethane	98		73 - 122	02/27/12 11:30	03/02/12 11:31	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	02/27/12 11:30	03/02/12 11:31	1
Toluene-d8 (Surr)	107		72 - 122	02/27/12 11:30	03/02/12 11:31	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Acenaphthylene	<0.031		0.031	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Anthracene	<0.034		0.034	0.0082	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Benzo[a]anthracene	<0.034		0.034	0.0073	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Benzo[a]pyrene	<0.034	*	0.034	0.0063	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B12**

**Lab Sample ID: 500-44486-14**

**Date Collected: 02/27/12 11:30**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 92.3**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034	*	0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Benzo[k]fluoranthene	<0.034		0.034	0.0083	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2-Chlorophenol	<0.17		0.17	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0097	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Dibenzofuran	<0.17		0.17	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Fluorene	<0.034		0.034	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
3 & 4 Methylphenol	<0.17		0.17	0.066	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B12**

**Lab Sample ID: 500-44486-14**

Date Collected: 02/27/12 11:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 92.3

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Phenanthrene	<0.034		0.034	0.015	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Phenol	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
Pyrene	<0.034		0.034	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1
2,4,6-Trichlorophenol	<0.34		0.34	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		27 - 113	02/29/12 17:03	03/07/12 22:12	1
2-Fluorophenol	82		30 - 110	02/29/12 17:03	03/07/12 22:12	1
Nitrobenzene-d5	90		22 - 110	02/29/12 17:03	03/07/12 22:12	1
Phenol-d5	88		26 - 112	02/29/12 17:03	03/07/12 22:12	1
Terphenyl-d14	91		33 - 129	02/29/12 17:03	03/07/12 22:12	1
2,4,6-Tribromophenol	98		30 - 137	02/29/12 17:03	03/07/12 22:12	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:42	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 13:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 13:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 13:42	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:42	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 13:42	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:42	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:42	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:42	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 13:42	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 13:42	1
Boron	<0.10		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 13:42	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Arsenic</b>	<b>3.1</b>		0.54	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Barium</b>	<b>9.6</b>		0.54	0.064	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Beryllium</b>	<b>0.22</b>		0.21	0.016	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.027	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Chromium</b>	<b>4.3</b>		0.54	0.090	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Copper</b>	<b>10</b>		0.54	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Lead</b>	<b>3.5</b>		0.27	0.092	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Nickel</b>	<b>5.1</b>		0.54	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Zinc</b>	<b>20</b>		1.1	0.37	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Sodium</b>	<b>380</b>		54	9.8	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Potassium</b>	<b>460</b>		27	3.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
<b>Calcium</b>	<b>81000</b>	<b>B E</b>	11	1.9	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B12**

**Lab Sample ID: 500-44486-14**

Date Collected: 02/27/12 11:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 92.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7000		11	4.6	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Vanadium	8.4		0.27	0.041	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Magnesium	40000	B	5.4	1.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Boron	4.0		2.7	0.50	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Manganese	250		0.54	0.076	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1
Cobalt	2.0		0.27	0.028	mg/Kg	☼	03/02/12 08:55	03/07/12 06:18	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:00	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:41	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0050	mg/Kg	☼	03/02/12 08:55	03/02/12 12:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			03/07/12 18:25	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B13**

**Lab Sample ID: 500-44486-15**

Date Collected: 02/27/12 12:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.7

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Benzene	<0.0049		0.0049	0.00052	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
2-Butanone (MEK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Carbon disulfide	<0.0049		0.0049	0.00069	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Chloroform	<0.0049		0.0049	0.00089	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/27/12 12:30	03/01/12 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	02/27/12 12:30	03/01/12 18:02	1
Dibromofluoromethane	98		73 - 122	02/27/12 12:30	03/01/12 18:02	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	02/27/12 12:30	03/01/12 18:02	1
Toluene-d8 (Surr)	108		72 - 122	02/27/12 12:30	03/01/12 18:02	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Benzo[a]pyrene	<0.039	*	0.039	0.0072	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B13**

**Lab Sample ID: 500-44486-15**

**Date Collected: 02/27/12 12:30**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 82.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B13**

**Lab Sample ID: 500-44486-15**

Date Collected: 02/27/12 12:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.7

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		27 - 113	02/29/12 17:03	03/07/12 22:32	1
2-Fluorophenol	83		30 - 110	02/29/12 17:03	03/07/12 22:32	1
Nitrobenzene-d5	92		22 - 110	02/29/12 17:03	03/07/12 22:32	1
Phenol-d5	88		26 - 112	02/29/12 17:03	03/07/12 22:32	1
Terphenyl-d14	99		33 - 129	02/29/12 17:03	03/07/12 22:32	1
2,4,6-Tribromophenol	101		30 - 137	02/29/12 17:03	03/07/12 22:32	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:48	1
<b>Barium</b>	<b>0.63</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 13:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 13:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 13:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:48	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 13:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:48	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:48	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:48	1
<b>Zinc</b>	<b>0.025 J</b>		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 13:48	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 13:48	1
Boron	<0.10		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 13:48	1
<b>Manganese</b>	<b>0.75</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:48	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Arsenic</b>	<b>5.3</b>		0.56	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Barium</b>	<b>32</b>		0.56	0.067	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Beryllium</b>	<b>0.47</b>		0.23	0.016	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.028	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Chromium</b>	<b>8.1</b>		0.56	0.094	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Copper</b>	<b>13</b>		0.56	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Lead</b>	<b>5.6</b>		0.28	0.097	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Nickel</b>	<b>8.6</b>		0.56	0.12	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Zinc</b>	<b>26</b>		1.1	0.39	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Sodium</b>	<b>180</b>		56	10	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Potassium</b>	<b>670</b>		28	3.2	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
<b>Calcium</b>	<b>61000 B E</b>		11	2.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B13**

**Lab Sample ID: 500-44486-15**

Date Collected: 02/27/12 12:30

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11000		11	4.9	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Vanadium	19		0.28	0.043	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Magnesium	34000	B	5.6	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Boron	3.6		2.8	0.52	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Manganese	370		0.56	0.079	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1
Cobalt	3.4		0.28	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 06:24	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:01	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:42	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0053	mg/Kg	☼	03/02/12 08:55	03/02/12 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			03/07/12 18:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14**

**Lab Sample ID: 500-44486-16**

**Date Collected: 02/27/12 12:45**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 95.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.26		0.26	0.10	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Benzene	<0.013		0.013	0.0041	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Bromodichloromethane	<0.10		0.10	0.014	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Bromoform	<0.10		0.10	0.030	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Bromomethane	<0.10		0.10	0.045	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
2-Butanone (MEK)	<0.26		0.26	0.054	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Carbon disulfide	<0.26		0.26	0.023	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Carbon tetrachloride	<0.052		0.052	0.015	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Chlorobenzene	<0.052		0.052	0.012	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Chloroethane	<0.10		0.10	0.026	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Chloroform	<0.052		0.052	0.013	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Chloromethane	<0.10		0.10	0.026	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
cis-1,2-Dichloroethene	<0.052		0.052	0.012	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
cis-1,3-Dichloropropene	<0.052		0.052	0.014	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Dibromochloromethane	<0.10		0.10	0.020	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,1-Dichloroethane	<0.052		0.052	0.013	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,2-Dichloroethane	<0.052		0.052	0.015	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,1,1-Dichloroethene	<0.052		0.052	0.015	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,2-Dichloropropane	<0.052		0.052	0.018	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,3-Dichloropropene, Total	<0.052		0.052	0.014	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Ethylbenzene	<0.013		0.013	0.0073	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
2-Hexanone	<0.26		0.26	0.029	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Methylene Chloride	<0.26		0.26	0.033	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
4-Methyl-2-pentanone (MIBK)	<0.26		0.26	0.041	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Methyl tert-butyl ether	<0.10		0.10	0.025	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Styrene	<0.052		0.052	0.014	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,1,1,2-Tetrachloroethane	<0.052		0.052	0.018	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Tetrachloroethene	<0.052		0.052	0.011	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Toluene	<0.013		0.013	0.0078	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
trans-1,2-Dichloroethene	<0.052		0.052	0.014	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
trans-1,3-Dichloropropene	<0.052		0.052	0.018	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,1,1-Trichloroethane	<0.052		0.052	0.014	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
1,1,2-Trichloroethane	<0.052		0.052	0.016	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Trichloroethene	<0.013		0.013	0.0078	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Vinyl chloride	<0.013		0.013	0.0065	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50
Xylenes, Total	<0.026		0.026	0.0067	mg/Kg	☼	02/27/12 12:45	03/08/12 20:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		79 - 120	02/27/12 12:45	03/08/12 20:55	50
Dibromofluoromethane	109		74 - 123	02/27/12 12:45	03/08/12 20:55	50
1,2-Dichloroethane-d4 (Surr)	97		75 - 131	02/27/12 12:45	03/08/12 20:55	50
Toluene-d8 (Surr)	100		80 - 120	02/27/12 12:45	03/08/12 20:55	50

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Acenaphthylene	<0.031		0.031	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Anthracene	<0.034		0.034	0.0082	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Benzo[a]anthracene	<0.034		0.034	0.0073	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Benzo[a]pyrene	<0.034	*	0.034	0.0063	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14**

**Lab Sample ID: 500-44486-16**

Date Collected: 02/27/12 12:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 95.2

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034	*	0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Benzo[k]fluoranthene	<0.034		0.034	0.0083	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2-Chlorophenol	<0.17		0.17	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0097	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Dibenzofuran	<0.17		0.17	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Fluorene	<0.034		0.034	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
3 & 4 Methylphenol	<0.17		0.17	0.066	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2-Nitroaniline	<0.17		0.17	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14**

**Lab Sample ID: 500-44486-16**

Date Collected: 02/27/12 12:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 95.2

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Phenanthrene	<0.034		0.034	0.015	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Phenol	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
Pyrene	<0.034		0.034	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1
2,4,6-Trichlorophenol	<0.34		0.34	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		27 - 113	02/29/12 17:03	03/07/12 22:51	1
2-Fluorophenol	77		30 - 110	02/29/12 17:03	03/07/12 22:51	1
Nitrobenzene-d5	85		22 - 110	02/29/12 17:03	03/07/12 22:51	1
Phenol-d5	85		26 - 112	02/29/12 17:03	03/07/12 22:51	1
Terphenyl-d14	94		33 - 129	02/29/12 17:03	03/07/12 22:51	1
2,4,6-Tribromophenol	93		30 - 137	02/29/12 17:03	03/07/12 22:51	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:55	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 13:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 13:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 13:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:55	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 13:55	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:55	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 13:55	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:55	1
<b>Zinc</b>	<b>0.021</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 13:55	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 13:55	1
<b>Boron</b>	<b>0.67</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 13:55	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 13:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 13:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Arsenic</b>	<b>2.1</b>		0.49	0.11	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Barium</b>	<b>8.2</b>		0.49	0.059	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Beryllium</b>	<b>0.19</b>	<b>J</b>	0.20	0.014	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Cadmium</b>	<b>0.10</b>		0.099	0.024	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Chromium</b>	<b>3.2</b>		0.49	0.082	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Copper</b>	<b>6.4</b>		0.49	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Lead</b>	<b>2.9</b>		0.25	0.085	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Nickel</b>	<b>4.0</b>		0.49	0.11	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Thallium	<0.49		0.49	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Zinc</b>	<b>13</b>		0.99	0.34	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Sodium</b>	<b>190</b>		49	9.0	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Potassium</b>	<b>430</b>		25	2.8	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
<b>Calcium</b>	<b>100000</b>	<b>B E</b>	9.9	1.7	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14**

**Lab Sample ID: 500-44486-16**

Date Collected: 02/27/12 12:45

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 95.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4600		9.9	4.3	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Vanadium	6.1		0.25	0.037	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Magnesium	46000	B	4.9	0.96	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Boron	3.1		2.5	0.46	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Manganese	230		0.49	0.070	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1
Cobalt	1.6		0.25	0.026	mg/Kg	☼	03/02/12 08:55	03/07/12 06:30	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:02	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0050	mg/Kg	☼	03/02/12 08:55	03/02/12 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			03/07/12 18:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14 DUP**

**Lab Sample ID: 500-44486-17**

Date Collected: 02/27/12 12:55

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 95.1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0056		0.0046	0.0022	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Bromodichloromethane	<0.0046		0.0046	0.00070	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Bromoform	<0.0046	*	0.0046	0.00074	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
2-Butanone (MEK)	<0.0046		0.0046	0.00099	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Carbon tetrachloride	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,2-Dichloroethane	<0.0046		0.0046	0.00047	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00078	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Styrene	<0.0046		0.0046	0.00058	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00088	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1
Xylenes, Total	<0.0091		0.0091	0.00064	mg/Kg	☼	02/27/12 12:55	03/01/12 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/27/12 12:55	03/01/12 18:54	1
Dibromofluoromethane	93		73 - 122	02/27/12 12:55	03/01/12 18:54	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	02/27/12 12:55	03/01/12 18:54	1
Toluene-d8 (Surr)	106		72 - 122	02/27/12 12:55	03/01/12 18:54	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Acenaphthylene	<0.031		0.031	0.0080	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Benzo[a]anthracene	<0.034		0.034	0.0073	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Benzo[a]pyrene	<0.034	*	0.034	0.0063	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14 DUP**

**Lab Sample ID: 500-44486-17**

**Date Collected: 02/27/12 12:55**

**Matrix: Solid**

**Date Received: 02/28/12 11:17**

**Percent Solids: 95.1**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034	*	0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Benzo[k]fluoranthene	<0.034		0.034	0.0083	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2-Chlorophenol	<0.17		0.17	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0097	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Dibenzofuran	<0.17		0.17	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Fluorene	<0.034		0.034	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
3 & 4 Methylphenol	<0.17		0.17	0.066	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14 DUP**

**Lab Sample ID: 500-44486-17**

Date Collected: 02/27/12 12:55

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 95.1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Phenol	<0.17		0.17	0.055	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
Pyrene	<0.034		0.034	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		27 - 113	02/29/12 17:03	03/07/12 23:10	1
2-Fluorophenol	69		30 - 110	02/29/12 17:03	03/07/12 23:10	1
Nitrobenzene-d5	78		22 - 110	02/29/12 17:03	03/07/12 23:10	1
Phenol-d5	73		26 - 112	02/29/12 17:03	03/07/12 23:10	1
Terphenyl-d14	84		33 - 129	02/29/12 17:03	03/07/12 23:10	1
2,4,6-Tribromophenol	83		30 - 137	02/29/12 17:03	03/07/12 23:10	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 14:01	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 14:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 14:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 14:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:01	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 14:01	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:01	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 14:01	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 14:01	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 14:01	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 14:01	1
<b>Boron</b>	<b>0.62</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 14:01	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 14:01	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Arsenic</b>	<b>2.5</b>		0.51	0.11	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Barium</b>	<b>9.2</b>		0.51	0.060	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Beryllium</b>	<b>0.28</b>		0.20	0.015	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Cadmium</b>	<b>0.11</b>		0.10	0.025	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Chromium</b>	<b>5.6</b>		0.51	0.085	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Copper</b>	<b>7.4</b>		0.51	0.14	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Lead</b>	<b>3.3</b>		0.25	0.087	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Nickel</b>	<b>5.5</b>		0.51	0.11	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Zinc</b>	<b>15</b>		1.0	0.35	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Sodium</b>	<b>180</b>		51	9.3	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Potassium</b>	<b>420</b>		25	2.9	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
<b>Calcium</b>	<b>69000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B14 DUP**

**Lab Sample ID: 500-44486-17**

Date Collected: 02/27/12 12:55

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 95.1

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6100		10	4.4	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Vanadium	8.8		0.25	0.038	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Magnesium	35000	B	5.1	0.98	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Boron	3.1		2.5	0.47	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Manganese	220		0.51	0.071	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1
Cobalt	2.4		0.25	0.027	mg/Kg	☼	03/02/12 08:55	03/07/12 06:36	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:09	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:46	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0048	mg/Kg	☼	03/02/12 08:55	03/02/12 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.40		0.200	0.200	SU			03/07/12 18:41	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B15**

**Lab Sample ID: 500-44486-18**

Date Collected: 02/27/12 13:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0024	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Bromodichloromethane	<0.0050		0.0050	0.00075	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Bromoform	<0.0050	*	0.0050	0.00080	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Carbon disulfide	<0.0050		0.0050	0.00070	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Chlorobenzene	<0.0050		0.0050	0.00078	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Chloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Chloroform	<0.0050		0.0050	0.00091	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Chloromethane	<0.0050		0.0050	0.00081	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00072	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Dibromochloromethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,1-Dichloroethene	<0.0050		0.0050	0.00078	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Ethylbenzene	<0.0050		0.0050	0.00074	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
2-Hexanone	<0.0050		0.0050	0.00070	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00084	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00074	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Tetrachloroethene	<0.0050		0.0050	0.00094	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Toluene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00095	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00066	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Trichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Vinyl chloride	<0.0050		0.0050	0.00069	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1
Xylenes, Total	<0.0099		0.0099	0.00069	mg/Kg	☼	02/27/12 13:05	03/01/12 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/27/12 13:05	03/01/12 19:20	1
Dibromofluoromethane	98		73 - 122	02/27/12 13:05	03/01/12 19:20	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/27/12 13:05	03/01/12 19:20	1
Toluene-d8 (Surr)	109		72 - 122	02/27/12 13:05	03/01/12 19:20	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Benzo[a]pyrene	<0.040	*	0.040	0.0073	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B15**

**Lab Sample ID: 500-44486-18**

Date Collected: 02/27/12 13:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.5

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040	*	0.040	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B15**

**Lab Sample ID: 500-44486-18**

Date Collected: 02/27/12 13:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.5

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	02/29/12 17:03	03/07/12 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		27 - 113	02/29/12 17:03	03/07/12 23:29	1
2-Fluorophenol	76		30 - 110	02/29/12 17:03	03/07/12 23:29	1
Nitrobenzene-d5	80		22 - 110	02/29/12 17:03	03/07/12 23:29	1
Phenol-d5	83		26 - 112	02/29/12 17:03	03/07/12 23:29	1
Terphenyl-d14	82		33 - 129	02/29/12 17:03	03/07/12 23:29	1
2,4,6-Tribromophenol	90		30 - 137	02/29/12 17:03	03/07/12 23:29	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 14:07	1
<b>Barium</b>	<b>0.59</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 14:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 14:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 14:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:07	1
<b>Copper</b>	<b>0.018 J</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 14:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:07	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 14:07	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 14:07	1
<b>Zinc</b>	<b>0.036 J</b>		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 14:07	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 14:07	1
<b>Boron</b>	<b>0.78</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 14:07	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 14:07	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 14:07	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Arsenic</b>	<b>5.9</b>		0.58	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Barium</b>	<b>53</b>		0.58	0.070	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.017	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Cadmium</b>	<b>0.090 J</b>		0.12	0.029	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Chromium</b>	<b>15</b>		0.58	0.098	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Copper</b>	<b>13</b>		0.58	0.16	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Lead</b>	<b>7.9</b>		0.29	0.10	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Nickel</b>	<b>13</b>		0.58	0.13	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Selenium</b>	<b>0.18 J</b>		0.58	0.17	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Zinc</b>	<b>35</b>		1.2	0.40	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Sodium</b>	<b>110</b>		58	11	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Potassium</b>	<b>850</b>		29	3.3	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
<b>Calcium</b>	<b>23000 B</b>		12	2.1	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

**Client Sample ID: 915B-39-B15**

**Lab Sample ID: 500-44486-18**

Date Collected: 02/27/12 13:05

Matrix: Solid

Date Received: 02/28/12 11:17

Percent Solids: 82.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000		12	5.1	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
Vanadium	30		0.29	0.044	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
Magnesium	12000	B	5.8	1.1	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
Boron	2.8	J	2.9	0.55	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
Manganese	460		0.58	0.082	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1
Cobalt	5.6		0.29	0.031	mg/Kg	☼	03/02/12 08:55	03/07/12 06:43	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/09/12 12:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:10	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 09:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.020	0.0060	mg/Kg	☼	03/02/12 08:55	03/02/12 13:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.20		0.200	0.200	SU			03/07/12 18:47	1

## Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44486-1  
SDG: 500-44486-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
*	LCS or LCSD exceeds the control 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
F	RPD of the MS and MSD 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.
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

#### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@tesiamerica.com		Project Name: <u>RT# 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-44-486</u> Sample Temp.: <u>(26) (26)</u>										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	915B-39-802	2/27/12	8:50	S	✓	✓					✓	✓	✓	✓		0-6'
2	915B-39-801	2/27	9:00	S	✓	✓					✓	✓	✓	✓		0-6'
3	915B-39-803	2/27	9:35	S	✓	✓					✓	✓	✓	✓		0-6'
4	915B-39-804	2/27	9:45	S	✓	✓					✓	✓	✓	✓		0-6'
5	915B-39-804DUP	2/27	9:55	S	✓	✓					✓	✓	✓	✓		0-6'
6	915B-39-805	2/27	10:05	S	✓	✓					✓	✓	✓	✓		0-6'
7	915B-39-806	2/27	10:15	S	✓	✓					✓	✓	✓	✓		0-6'
8	915B-39-807	2/27	10:25	S	✓	✓					✓	✓	✓	✓		0-6'
9	915B-39-808	2/27	10:30	S	✓	✓					✓	✓	✓	✓		0-6'
10	915B-39-809	2/27	10:45	S	✓	✓					✓	✓	✓	✓		0-6'
11	915B-39-810	2/27	11:00	S	✓	✓					✓	✓	✓	✓		0-6'
12	915B-39-801	2/27	12:00	W	✓	✓					✓	✓	✓	✓		9-8'
Relinquished by: <i>[Signature]</i>				Date/Time: 2/28/12 8:34	Received by: <i>[Signature]</i>				Date/Time: 2-28-12 9:50							
Relinquished by: <i>[Signature]</i>				Date/Time: 2-28-12 11:17	Received by: <i>[Signature]</i>				Date/Time: 2/28/12 11:17							
Relinquished by:				Date/Time:	Received by:				Date/Time:							





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamerica.com		<b>Project Name:</b> RFE 14 <b>Project No.:</b> IDOT2011-032 <b>TAT:</b> <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 15 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		<b>COC No.:</b> 2 of 2 <b>Lab Job No.:</b> 500-44486 <b>Sample Temp.:</b>									
<b>ANALYSES</b>															
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	BTEX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	95B-39-B11	2/27	11:10	S	✓					✓	✓	✓	✓		0-6'
14	95B-39-B12	2/27	11:30	S	✓					✓	✓	✓	✓		0-6'
15	95B-39-B13	2/27	12:30	S	✓					✓	✓	✓	✓		0-6'
16	95B-39-B14	2/27	12:45	S	✓					✓	✓	✓	✓		0-6'
17	95B-39-B14DUP	2/27	12:55	S	✓					✓	✓	✓	✓		0-6'
18	95B-39-B15	2/27	1:05	S	✓					✓	✓	✓	✓		0-6'
19	95B-41-B01	2/27	1:45	S	✓					✓	✓	✓	✓		0-6'
20	95B-41-B01	2/27	1:45	S	X					X	X	X	X		0-10'
	95B-41-B01	2/27													
	95B-41-B01	2/27													
	95B-41-B01	2/27													
	95B-41-B01	2/27													
Relinquished by:				Date/Time: 2/28/12 3:35 AM		Received by: <i>LAC Mattingly</i>		Date/Time: 2/28/12 9:50							
Relinquished by: <i>Dick Wright</i>				Date/Time: 2/28/12 1117		Received by: <i>LAC Mattingly</i>		Date/Time: 2/28/12 1117							
Relinquished by:				Date/Time:		Received by:		Date/Time:							

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

September 30, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-032

**WorkOrder:** 13091088

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 9/23/2013 11:28:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy  
Project Manager  
(618)344-1004 ex 36  
[SHennessy@teklabinc.com](mailto:SHennessy@teklabinc.com)

**Client:** Andrews Engineering, Inc.

**Work Order:** 13091088

**Client Project:** IDOT2011-032

**Report Date:** 30-Sep-13

### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count ( > 200 CFU )

### Qualifiers

- |  |  |
|--|--|
| # - Unknown hydrocarbon                        | B - Analyte detected in associated Method Blank        |
| E - Value above quantitation range             | H - Holding times exceeded                             |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit       | R - RPD outside accepted recovery limits               |
| S - Spike Recovery outside recovery limits     | X - Value exceeds Maximum Contaminant Level            |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13091088

Client Project: IDOT2011-032

Report Date: 30-Sep-13

Lab ID: 13091088-001

Client Sample ID: 915B-39-B08

Matrix: SOLID

Collection Date: 09/20/2013 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 1311, 3010A, 6010B, METALS IN TCLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005		<b>0.323</b>	mg/L	1	09/30/2013 10:22	92308
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.1	0.15	X	<b>0.944</b>	mg/L	1	09/25/2013 15:12	92207



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: TekLab, Inc. Address: 5445 Horseshoe Lake Road Collinsville, IL 62234 Phone: 877-344-1003 Contact: Shelly Hennessy email: shennessy@teklabinc.com	<b>Project Name:</b> <u>R414 McDermey Co</u> <b>Project No.:</b> <u>DOT 2011-032</u> <b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other <i>AGJ</i> <b>Sampler:</b>	<b>COC No.:</b> <u>1</u> of <u>1</u> <b>Lab Job No.:</b> <u>13091088</u> <b>Sample Temp:</b> <u>23.0 NR</u>
---	--	---	---

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	
13091088 201	915B-39-B08	9/20/13	11:10	S												X SPLP m/k TCLP MD	0-6'
<b>Relinquished by:</b> <u>William A. Myer (AGJ)</u>	<b>Date/Time:</b> <u>9/20/13 3:40</u>	<b>Relinquished by:</b> <u>Stephanie Langer</u>	<b>Date/Time:</b> <u>9/23/13 11:28</u>														
<b>Relinquished by:</b>	<b>Date/Time:</b>	<b>Relinquished by:</b>	<b>Date/Time:</b>														
<b>Relinquished by:</b>	<b>Date/Time:</b>	<b>Relinquished by:</b>	<b>Date/Time:</b>														

### Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.  
 \* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.  
 \*\* If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Received by:  
 Received by:  
 Received by:





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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

1800 West Lake Shore Drive

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.28826 Longitude: -88.41385

(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: 1110950004 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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.28826 Longitude: -88.41385

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):

LOCATIONS 915B-44-B02, -B04 TO -B08, AND -B10 TO -B12 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-44. SEE FIGURES 2 THROUGH 4 AND TABLE 5ai OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44516-1 AND 500-44515-1

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

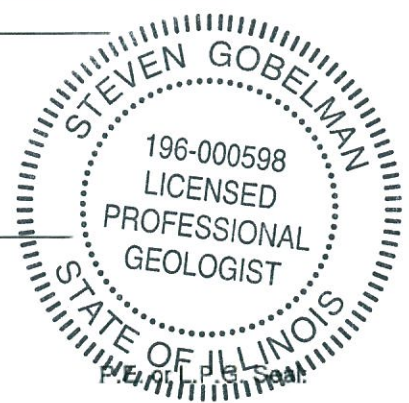
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

  
 Date:



**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISCS Site 915B-44  
Wells Dura-bar Metals**

Sample ID	915B-44-B02-1	915B-44-B02-2	915B-44-B04-1	915B-44-B04-2	915B-44-B05-1						
Sample Depth (ft)	0-6	6-12	0-6	6-12	0-6						
Sample Date	2/28/2012	2/28/2012	2/28/2012	2/28/2012	2/28/2012						
PID	0	0	0	0	89						
Sample pH	8.13	8.99	8.2	8.91	8.08						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

Sample ID	915B-44-B05-2	915B-44-B06-1	915B-44-B06-2	915B-44-B07-1	915B-44-B07-2						
Sample Depth (ft)	6-12	0-6	6-12	0-6	6-12						
Sample Date	2/28/2012	2/28/2012	2/28/2012	2/28/2012	2/28/2012						
PID	95	88	94	96	96						
Sample pH	8.88	8.34	8.86	8.99	8.94						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

Sample ID	5B-44-B08-1	915B-44-B08-1 DUP	915B-44-B08-2	915B-44-B10-1	915B-44-B10-2						
Sample Depth (ft)	0-6	0-6	6-12	0-6	6-12						
Sample Date	2/28/2012	2/28/2012	2/28/2012	2/28/2012	2/28/2012						
PID	96	95	96	0	0						
Sample pH	8.68	8.56	8.43	8.81	8.32						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

Sample ID	915B-44-B11-1	915B-44-B11-2	915B-44-B12-1	915B-44-B12-1 DUF	915B-44-B12-2						
Sample Depth (ft)	0-6	6-12	0-6	0-6	6-12						
Sample Date	2/28/2012	2/28/2012	2/28/2012	2/28/2012	2/28/2012						
PID	0	0	0	0	0						
Sample pH	8.15	8.19	7.8	8.04	8.49						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

# 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: 500-44516-1

TestAmerica Sample Delivery Group: 500-44516-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/21/2012 1:56:44 PM

Jodie Bracken

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Richard Wright

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### LINKS

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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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-1**

**Lab Sample ID: 500-44516-1**

**Date Collected: 02/28/12 11:45**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 96.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Carbon disulfide	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/28/12 11:45	03/06/12 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		76 - 120	02/28/12 11:45	03/06/12 17:03	1
Dibromofluoromethane	96		73 - 122	02/28/12 11:45	03/06/12 17:03	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	02/28/12 11:45	03/06/12 17:03	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 11:45	03/06/12 17:03	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Acenaphthylene	<0.031		0.031	0.0078	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Benzo[a]anthracene	<0.034		0.034	0.0071	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-1**

**Lab Sample ID: 500-44516-1**

**Date Collected: 02/28/12 11:45**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 96.0**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Chrysene	<0.034		0.034	0.0076	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0094	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
3,3'-Dichlorobenzidine	<0.17 *		0.17	0.028	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.082	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,4-Dinitrophenol	<0.68		0.68	0.17	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Di-n-octyl phthalate	<0.17 *		0.17	0.069	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Hexachlorobenzene	<0.068		0.068	0.0067	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Naphthalene	<0.034		0.034	0.0065	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
3-Nitroaniline	<0.34		0.34	0.065	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
4-Nitroaniline	<0.34		0.34	0.069	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Nitrobenzene	<0.034		0.034	0.010	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-1**

**Lab Sample ID: 500-44516-1**

Date Collected: 02/28/12 11:45

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.0

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1
2,4,6-Trichlorophenol	<0.34		0.34	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		30 - 119	03/02/12 07:14	03/09/12 01:12	1
2-Fluorophenol	99		30 - 110	03/02/12 07:14	03/09/12 01:12	1
Nitrobenzene-d5	95		30 - 115	03/02/12 07:14	03/09/12 01:12	1
Phenol-d5	106		31 - 110	03/02/12 07:14	03/09/12 01:12	1
Terphenyl-d14	107		36 - 134	03/02/12 07:14	03/09/12 01:12	1
2,4,6-Tribromophenol	90		35 - 137	03/02/12 07:14	03/09/12 01:12	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:06	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 01:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 01:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 01:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:06	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:06	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 01:06	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:06	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:06	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:06	1
Zinc	<0.10		0.10	0.020	mg/L		03/08/12 16:00	03/10/12 01:06	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 01:06	1
Boron	<0.10		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 01:06	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:06	1
<b>Cobalt</b>	<b>0.0080</b>	<b>J</b>	0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:06	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Arsenic</b>	<b>2.6</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Barium</b>	<b>7.8</b>		0.51	0.061	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Beryllium</b>	<b>0.22</b>		0.20	0.015	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Cadmium</b>	<b>0.12</b>		0.10	0.025	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Chromium</b>	<b>4.0</b>		0.51	0.085	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Copper</b>	<b>7.4</b>	<b>B</b>	0.51	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Lead</b>	<b>2.6</b>		0.26	0.088	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Nickel</b>	<b>4.1</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Selenium	<0.51	*	0.51	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Zinc</b>	<b>16</b>		1.0	0.35	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Sodium</b>	<b>170</b>		51	9.4	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Potassium</b>	<b>420</b>		26	2.9	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
<b>Calcium</b>	<b>81000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
 SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-1**

**Lab Sample ID: 500-44516-1**

Date Collected: 02/28/12 11:45

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5100	B	10	4.4	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Vanadium	7.9		0.26	0.039	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Magnesium	39000	B	5.1	0.99	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Boron	3.3		2.6	0.48	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Manganese	320		0.51	0.072	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1
Cobalt	2.0		0.26	0.027	mg/Kg	☼	03/06/12 16:35	03/09/12 04:53	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:00	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:39	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	J	0.016	0.0049	mg/Kg	☼	03/06/12 13:20	03/07/12 10:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.81		0.200	0.200	SU			03/08/12 17:33	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-2**

**Lab Sample ID: 500-44516-2**

Date Collected: 02/28/12 12:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.5

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Bromoform	<0.0049	*	0.0049	0.00080	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Chloroform	<0.0049		0.0049	0.00090	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Tetrachloroethene	<0.0049		0.0049	0.00093	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Toluene	<0.0049		0.0049	0.00095	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1
Xylenes, Total	<0.0098		0.0098	0.00069	mg/Kg	☼	02/28/12 12:00	03/06/12 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		76 - 120	02/28/12 12:00	03/06/12 17:29	1
Dibromofluoromethane	93		73 - 122	02/28/12 12:00	03/06/12 17:29	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	02/28/12 12:00	03/06/12 17:29	1
Toluene-d8 (Surr)	106		72 - 122	02/28/12 12:00	03/06/12 17:29	1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Acenaphthylene	<0.031		0.031	0.0078	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Benzo[a]anthracene	<0.034		0.034	0.0071	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-2**

**Lab Sample ID: 500-44516-2**

**Date Collected: 02/28/12 12:00**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 96.5**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Chrysene	<0.034		0.034	0.0077	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0095	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
3,3'-Dichlorobenzidine	<0.17 *		0.17	0.028	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,4-Dinitrophenol	<0.69		0.69	0.17	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Di-n-octyl phthalate	<0.17 *		0.17	0.069	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-2**

**Lab Sample ID: 500-44516-2**

Date Collected: 02/28/12 12:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.5

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		30 - 119	03/02/12 07:14	03/09/12 01:34	1
2-Fluorophenol	82		30 - 110	03/02/12 07:14	03/09/12 01:34	1
Nitrobenzene-d5	87		30 - 115	03/02/12 07:14	03/09/12 01:34	1
Phenol-d5	87		31 - 110	03/02/12 07:14	03/09/12 01:34	1
Terphenyl-d14	92		36 - 134	03/02/12 07:14	03/09/12 01:34	1
2,4,6-Tribromophenol	81		35 - 137	03/02/12 07:14	03/09/12 01:34	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:12	1
<b>Barium</b>	<b>0.10</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 01:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 01:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 01:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:12	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 01:12	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:12	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:12	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:12	1
Zinc	<0.10		0.10	0.020	mg/L		03/08/12 16:00	03/10/12 01:12	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 01:12	1
<b>Boron</b>	<b>0.057</b>	<b>J</b>	0.10	0.050	mg/L		03/08/12 16:00	03/10/12 01:12	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:12	1
<b>Cobalt</b>	<b>0.0076</b>	<b>J</b>	0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:12	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Arsenic</b>	<b>2.3</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Barium</b>	<b>6.9</b>		0.51	0.061	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Beryllium</b>	<b>0.24</b>		0.20	0.015	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Cadmium</b>	<b>0.099</b>	<b>J</b>	0.10	0.025	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Chromium</b>	<b>3.7</b>		0.51	0.085	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Copper</b>	<b>7.5</b>	<b>B</b>	0.51	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Lead</b>	<b>3.0</b>		0.26	0.088	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Nickel</b>	<b>4.1</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Selenium	<0.51	*	0.51	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Zinc</b>	<b>17</b>		1.0	0.35	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Sodium</b>	<b>120</b>		51	9.4	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Potassium</b>	<b>320</b>		26	2.9	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
<b>Calcium</b>	<b>60000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B10-2**

**Lab Sample ID: 500-44516-2**

Date Collected: 02/28/12 12:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5200	B	10	4.4	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Vanadium	9.6		0.26	0.039	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Magnesium	27000	B	5.1	0.99	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Boron	2.6		2.6	0.48	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Manganese	170		0.51	0.072	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1
Cobalt	1.9		0.26	0.027	mg/Kg	☼	03/06/12 16:35	03/09/12 04:59	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:00	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0058	J	0.016	0.0050	mg/Kg	☼	03/06/12 13:20	03/07/12 10:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			03/08/12 17:44	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-1**

**Lab Sample ID: 500-44516-3**

Date Collected: 02/28/12 12:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Bromoform	<0.0050	*	0.0050	0.00081	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Chloroform	<0.0050		0.0050	0.00092	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Chloromethane	<0.0050		0.0050	0.00082	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00085	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Tetrachloroethene	<0.0050		0.0050	0.00095	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Toluene	<0.0050		0.0050	0.00097	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
<b>Trichloroethene</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.00081	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/28/12 12:20	03/06/12 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	02/28/12 12:20	03/06/12 17:55	1
Dibromofluoromethane	95		73 - 122	02/28/12 12:20	03/06/12 17:55	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	02/28/12 12:20	03/06/12 17:55	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 12:20	03/06/12 17:55	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Acenaphthylene	<0.031		0.031	0.0079	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-1**

**Lab Sample ID: 500-44516-3**

**Date Collected: 02/28/12 12:20**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.2**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
3,3'-Dichlorobenzidine	<0.17 *		0.17	0.029	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Di-n-octyl phthalate	<0.17 *		0.17	0.070	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Hexachlorobenzene	<0.069		0.069	0.0068	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
4-Nitrophenol	<0.69		0.69	0.19	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-1**

**Lab Sample ID: 500-44516-3**

Date Collected: 02/28/12 12:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.2

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.69		0.69	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		30 - 119	03/02/12 07:14	03/09/12 01:57	1
2-Fluorophenol	84		30 - 110	03/02/12 07:14	03/09/12 01:57	1
Nitrobenzene-d5	81		30 - 115	03/02/12 07:14	03/09/12 01:57	1
Phenol-d5	90		31 - 110	03/02/12 07:14	03/09/12 01:57	1
Terphenyl-d14	94		36 - 134	03/02/12 07:14	03/09/12 01:57	1
2,4,6-Tribromophenol	80		35 - 137	03/02/12 07:14	03/09/12 01:57	1

**Method: 8082 - PCBs**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017	0.0061	mg/Kg	☼	03/06/12 17:05	03/07/12 13:36	1
PCB-1221	<0.017		0.017	0.0075	mg/Kg	☼	03/06/12 17:05	03/07/12 13:36	1
PCB-1232	<0.017		0.017	0.0075	mg/Kg	☼	03/06/12 17:05	03/07/12 13:36	1
PCB-1242	<0.017		0.017	0.0056	mg/Kg	☼	03/06/12 17:05	03/07/12 13:36	1
PCB-1248	<0.017		0.017	0.0067	mg/Kg	☼	03/06/12 17:05	03/07/12 13:36	1
PCB-1254	<0.017		0.017	0.0037	mg/Kg	☼	03/06/12 17:05	03/07/12 13:36	1
PCB-1260	<0.017		0.017	0.0084	mg/Kg	☼	03/06/12 17:05	03/07/12 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		50 - 116	03/06/12 17:05	03/07/12 13:36	1
DCB Decachlorobiphenyl	89		48 - 142	03/06/12 17:05	03/07/12 13:36	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:18	1
<b>Barium</b>	<b>0.17</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 01:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 01:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 01:18	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:18	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 01:18	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:18	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:18	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:18	1
<b>Zinc</b>	<b>0.028</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 01:18	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 01:18	1
<b>Boron</b>	<b>0.97</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 01:18	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:18	1
<b>Cobalt</b>	<b>0.0061</b>	<b>J</b>	0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:18	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
<b>Arsenic</b>	<b>2.7</b>		0.49	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-1**

**Lab Sample ID: 500-44516-3**

Date Collected: 02/28/12 12:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	9.8		0.49	0.059	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Beryllium	0.25		0.20	0.014	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Cadmium	0.15		0.099	0.024	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Chromium	4.2		0.49	0.083	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Copper	9.0	B	0.49	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Lead	2.6		0.25	0.085	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Nickel	4.8		0.49	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Selenium	<0.49	*	0.49	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Thallium	<0.49		0.49	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Zinc	14		0.99	0.34	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Sodium	220		49	9.1	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Potassium	450		25	2.8	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Calcium	80000	B E	9.9	1.7	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Iron	6300	B	9.9	4.3	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Vanadium	10		0.25	0.038	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Magnesium	42000	B	4.9	0.96	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Boron	3.5		2.5	0.46	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Manganese	190		0.49	0.070	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1
Cobalt	2.1		0.25	0.026	mg/Kg	☼	03/06/12 16:35	03/09/12 05:05	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:01	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:46	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0050	mg/Kg	☼	03/06/12 13:20	03/07/12 10:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			03/08/12 17:49	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-2**

**Lab Sample ID: 500-44516-4**

Date Collected: 02/28/12 12:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.010</b>		0.0047	0.0023	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Benzene	<0.0047		0.0047	0.00050	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Carbon disulfide	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
2-Hexanone	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00079	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
<b>Toluene</b>	<b>0.0026</b>	<b>J</b>	0.0047	0.00091	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Vinyl chloride	<0.0047		0.0047	0.00065	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1
Xylenes, Total	<0.0093		0.0093	0.00065	mg/Kg	☼	02/28/12 12:40	03/06/12 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/28/12 12:40	03/06/12 18:21	1
Dibromofluoromethane	92		73 - 122	02/28/12 12:40	03/06/12 18:21	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	02/28/12 12:40	03/06/12 18:21	1
Toluene-d8 (Surr)	107		72 - 122	02/28/12 12:40	03/06/12 18:21	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Acenaphthylene	<0.031		0.031	0.0079	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-2**

**Lab Sample ID: 500-44516-4**

**Date Collected: 02/28/12 12:40**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.6**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.085</b>	<b>J</b>	0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Chrysene	<0.034		0.034	0.0077	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
3,3'-Dichlorobenzidine	<0.17	*	0.17	0.029	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Di-n-octyl phthalate	<0.17	*	0.17	0.070	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-2**

**Lab Sample ID: 500-44516-4**

Date Collected: 02/28/12 12:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.6

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		30 - 119	03/02/12 07:14	03/09/12 02:19	1
2-Fluorophenol	95		30 - 110	03/02/12 07:14	03/09/12 02:19	1
Nitrobenzene-d5	89		30 - 115	03/02/12 07:14	03/09/12 02:19	1
Phenol-d5	99		31 - 110	03/02/12 07:14	03/09/12 02:19	1
Terphenyl-d14	99		36 - 134	03/02/12 07:14	03/09/12 02:19	1
2,4,6-Tribromophenol	82		35 - 137	03/02/12 07:14	03/09/12 02:19	1

**Method: 8082 - PCBs**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017	0.0060	mg/Kg	☼	03/06/12 17:05	03/07/12 13:50	1
PCB-1221	<0.017		0.017	0.0075	mg/Kg	☼	03/06/12 17:05	03/07/12 13:50	1
PCB-1232	<0.017		0.017	0.0074	mg/Kg	☼	03/06/12 17:05	03/07/12 13:50	1
PCB-1242	<0.017		0.017	0.0056	mg/Kg	☼	03/06/12 17:05	03/07/12 13:50	1
PCB-1248	<0.017		0.017	0.0067	mg/Kg	☼	03/06/12 17:05	03/07/12 13:50	1
PCB-1254	<0.017		0.017	0.0037	mg/Kg	☼	03/06/12 17:05	03/07/12 13:50	1
PCB-1260	<0.017		0.017	0.0084	mg/Kg	☼	03/06/12 17:05	03/07/12 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		50 - 116	03/06/12 17:05	03/07/12 13:50	1
DCB Decachlorobiphenyl	90		48 - 142	03/06/12 17:05	03/07/12 13:50	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:25	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 01:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 01:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 01:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:25	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 01:25	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:25	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:25	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:25	1
<b>Zinc</b>	<b>0.026</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 01:25	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 01:25	1
<b>Boron</b>	<b>1.0</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 01:25	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:25	1
<b>Cobalt</b>	<b>0.0061</b>	<b>J</b>	0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:25	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
<b>Arsenic</b>	<b>3.0</b>		0.52	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B11-2**

**Lab Sample ID: 500-44516-4**

Date Collected: 02/28/12 12:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	9.7		0.52	0.062	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Beryllium	0.26		0.21	0.015	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Cadmium	0.14		0.10	0.026	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Chromium	4.8		0.52	0.086	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Copper	8.9	B	0.52	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Lead	3.1		0.26	0.089	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Nickel	5.0		0.52	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Selenium	<0.52	*	0.52	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Zinc	16		1.0	0.35	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Sodium	200		52	9.5	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Potassium	450		26	2.9	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Calcium	87000	B E	10	1.8	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Iron	6400	B	10	4.5	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Vanadium	10		0.26	0.039	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Magnesium	44000	B	5.2	1.0	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Boron	3.8		2.6	0.48	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Manganese	230		0.52	0.073	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1
Cobalt	2.2		0.26	0.027	mg/Kg	☼	03/06/12 16:35	03/09/12 05:51	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:02	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0050	mg/Kg	☼	03/06/12 13:20	03/07/12 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			03/08/12 17:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1**

**Lab Sample ID: 500-44516-5**

Date Collected: 02/28/12 13:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 83.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0099		0.0047	0.0023	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/28/12 13:00	03/06/12 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/28/12 13:00	03/06/12 18:46	1
Dibromofluoromethane	95		73 - 122	02/28/12 13:00	03/06/12 18:46	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/28/12 13:00	03/06/12 18:46	1
Toluene-d8 (Surr)	107		72 - 122	02/28/12 13:00	03/06/12 18:46	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Acenaphthylene	<0.035		0.035	0.0090	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1**

**Lab Sample ID: 500-44516-5**

**Date Collected: 02/28/12 13:00**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 83.8**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
3,3'-Dichlorobenzidine	<0.20 *		0.20	0.032	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Di-n-octyl phthalate	<0.20 *		0.20	0.079	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1**

**Lab Sample ID: 500-44516-5**

Date Collected: 02/28/12 13:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 83.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Phenol	<0.20		0.20	0.062	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		30 - 119	03/02/12 07:14	03/09/12 02:41	1
2-Fluorophenol	89		30 - 110	03/02/12 07:14	03/09/12 02:41	1
Nitrobenzene-d5	82		30 - 115	03/02/12 07:14	03/09/12 02:41	1
Phenol-d5	98		31 - 110	03/02/12 07:14	03/09/12 02:41	1
Terphenyl-d14	99		36 - 134	03/02/12 07:14	03/09/12 02:41	1
2,4,6-Tribromophenol	96		35 - 137	03/02/12 07:14	03/09/12 02:41	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:31	1
<b>Barium</b>	<b>0.60</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 01:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 01:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 01:31	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:31	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 01:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:31	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:31	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:31	1
<b>Zinc</b>	<b>0.023</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 01:31	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 01:31	1
<b>Boron</b>	<b>0.90</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 01:31	1
<b>Manganese</b>	<b>0.44</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:31	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:31	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Arsenic</b>	<b>7.0</b>		0.59	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Barium</b>	<b>99</b>		0.59	0.070	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Beryllium</b>	<b>0.77</b>		0.23	0.017	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Cadmium</b>	<b>0.036</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Chromium</b>	<b>17</b>		0.59	0.098	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Copper</b>	<b>15</b>	<b>B</b>	0.59	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Lead</b>	<b>10</b>		0.29	0.10	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Nickel</b>	<b>16</b>		0.59	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Selenium</b>	<b>0.41</b>	<b>J *</b>	0.59	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Zinc</b>	<b>37</b>		1.2	0.40	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Sodium</b>	<b>70</b>		59	11	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Potassium</b>	<b>830</b>		29	3.3	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
<b>Calcium</b>	<b>4400</b>	<b>B</b>	12	2.1	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1**

**Lab Sample ID: 500-44516-5**

Date Collected: 02/28/12 13:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 83.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19000	B	12	5.1	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
Vanadium	32		0.29	0.044	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
Magnesium	4000	B	5.9	1.1	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
Boron	2.1	J	2.9	0.55	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
Manganese	350		0.59	0.083	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1
Cobalt	6.5		0.29	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 05:57	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:05	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:49	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.018	0.0054	mg/Kg	☼	03/06/12 13:20	03/07/12 10:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			03/08/12 18:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-2**

**Lab Sample ID: 500-44516-6**

Date Collected: 02/28/12 13:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.7

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0061		0.0050	0.0024	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Bromodichloromethane	<0.0050		0.0050	0.00075	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Bromoform	<0.0050	*	0.0050	0.00080	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Chlorobenzene	<0.0050		0.0050	0.00078	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Chloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Chloroform	<0.0050		0.0050	0.00091	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Chloromethane	<0.0050		0.0050	0.00081	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,1-Dichloroethene	<0.0050		0.0050	0.00078	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Ethylbenzene	<0.0050		0.0050	0.00074	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00084	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00074	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Tetrachloroethene	<0.0050		0.0050	0.00094	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Toluene	<0.0050		0.0050	0.00096	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00095	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Trichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1
Xylenes, Total	<0.0099		0.0099	0.00070	mg/Kg	☼	02/28/12 13:20	03/06/12 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 13:20	03/06/12 19:12	1
Dibromofluoromethane	98		73 - 122	02/28/12 13:20	03/06/12 19:12	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/28/12 13:20	03/06/12 19:12	1
Toluene-d8 (Surr)	107		72 - 122	02/28/12 13:20	03/06/12 19:12	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-2**

**Lab Sample ID: 500-44516-6**

**Date Collected: 02/28/12 13:20**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
3,3'-Dichlorobenzidine	<0.17 *		0.17	0.028	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,4-Dinitrophenol	<0.67		0.67	0.17	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Di-n-octyl phthalate	<0.17 *		0.17	0.068	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-2**

**Lab Sample ID: 500-44516-6**

Date Collected: 02/28/12 13:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.7

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/02/12 07:14	03/09/12 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		30 - 119	03/02/12 07:14	03/09/12 03:04	1
2-Fluorophenol	81		30 - 110	03/02/12 07:14	03/09/12 03:04	1
Nitrobenzene-d5	85		30 - 115	03/02/12 07:14	03/09/12 03:04	1
Phenol-d5	97		31 - 110	03/02/12 07:14	03/09/12 03:04	1
Terphenyl-d14	98		36 - 134	03/02/12 07:14	03/09/12 03:04	1
2,4,6-Tribromophenol	83		35 - 137	03/02/12 07:14	03/09/12 03:04	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:37	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 01:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 01:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 01:37	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:37	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 01:37	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:37	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:37	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:37	1
<b>Zinc</b>	<b>0.031</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 01:37	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 01:37	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 01:37	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:37	1
<b>Cobalt</b>	<b>0.0064</b>	<b>J</b>	0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:37	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Arsenic</b>	<b>1.5</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Barium</b>	<b>5.9</b>		0.50	0.060	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Beryllium</b>	<b>0.18</b>	<b>J</b>	0.20	0.015	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Cadmium</b>	<b>0.066</b>	<b>J</b>	0.10	0.025	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Chromium</b>	<b>3.2</b>		0.50	0.084	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Copper</b>	<b>5.3</b>	<b>B</b>	0.50	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Lead</b>	<b>1.9</b>		0.25	0.086	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Nickel</b>	<b>3.3</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Selenium	<0.50	*	0.50	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Zinc</b>	<b>12</b>		1.0	0.34	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Sodium</b>	<b>110</b>		50	9.2	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Potassium</b>	<b>260</b>		25	2.8	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
<b>Calcium</b>	<b>50000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
 SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-2**

**Lab Sample ID: 500-44516-6**

Date Collected: 02/28/12 13:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4000	B	10	4.3	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Vanadium	6.3		0.25	0.038	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Magnesium	25000	B	5.0	0.97	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Boron	2.5		2.5	0.47	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Manganese	150		0.50	0.071	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1
Cobalt	1.5		0.25	0.026	mg/Kg	☼	03/06/12 16:35	03/09/12 06:04	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:06	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:51	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015	0.0047	mg/Kg	☼	03/06/12 13:20	03/07/12 10:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			03/08/12 18:06	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1 DUP**

**Lab Sample ID: 500-44516-7**

Date Collected: 02/28/12 13:10

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 80.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0025	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Benzene	<0.0051		0.0051	0.00055	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Bromodichloromethane	<0.0051		0.0051	0.00078	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Bromoform	<0.0051	*	0.0051	0.00083	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Bromomethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
2-Butanone (MEK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Carbon disulfide	<0.0051		0.0051	0.00073	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Chlorobenzene	<0.0051		0.0051	0.00081	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Chloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Chloroform	<0.0051		0.0051	0.00094	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Chloromethane	<0.0051		0.0051	0.00084	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00075	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00058	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Dibromochloromethane	<0.0051		0.0051	0.00070	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,2-Dichloroethane	<0.0051		0.0051	0.00052	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,1-Dichloroethene	<0.0051		0.0051	0.00081	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,2-Dichloropropane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00058	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Ethylbenzene	<0.0051		0.0051	0.00077	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
2-Hexanone	<0.0051		0.0051	0.00073	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.00087	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00077	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Styrene	<0.0051		0.0051	0.00064	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Tetrachloroethene	<0.0051		0.0051	0.00097	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Toluene	<0.0051		0.0051	0.00099	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00068	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Trichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Vinyl chloride	<0.0051		0.0051	0.00072	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1
Xylenes, Total	<0.010		0.010	0.00072	mg/Kg	☼	02/28/12 13:10	03/06/12 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	02/28/12 13:10	03/06/12 19:38	1
Dibromofluoromethane	98		73 - 122	02/28/12 13:10	03/06/12 19:38	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/28/12 13:10	03/06/12 19:38	1
Toluene-d8 (Surr)	109		72 - 122	02/28/12 13:10	03/06/12 19:38	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Acenaphthylene	<0.037		0.037	0.0093	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1 DUP**

**Lab Sample ID: 500-44516-7**

**Date Collected: 02/28/12 13:10**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 80.8**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Chrysene	<0.040		0.040	0.0092	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
3,3'-Dichlorobenzidine	<0.20 *		0.20	0.034	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Di-n-octyl phthalate	<0.20 *		0.20	0.082	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.052	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1 DUP**

**Lab Sample ID: 500-44516-7**

Date Collected: 02/28/12 13:10

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 80.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	03/02/12 07:14	03/09/12 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		30 - 119	03/02/12 07:14	03/09/12 03:27	1
2-Fluorophenol	88		30 - 110	03/02/12 07:14	03/09/12 03:27	1
Nitrobenzene-d5	83		30 - 115	03/02/12 07:14	03/09/12 03:27	1
Phenol-d5	96		31 - 110	03/02/12 07:14	03/09/12 03:27	1
Terphenyl-d14	102		36 - 134	03/02/12 07:14	03/09/12 03:27	1
2,4,6-Tribromophenol	103		35 - 137	03/02/12 07:14	03/09/12 03:27	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:43	1
<b>Barium</b>	<b>0.67</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 01:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 01:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 01:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:43	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 01:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:43	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 01:43	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:43	1
<b>Zinc</b>	<b>0.029</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 01:43	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 01:43	1
<b>Boron</b>	<b>0.89</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 01:43	1
<b>Manganese</b>	<b>0.59</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 01:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 01:43	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Arsenic</b>	<b>6.4</b>		0.59	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Barium</b>	<b>110</b>		0.59	0.070	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Beryllium</b>	<b>0.76</b>		0.24	0.017	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Cadmium</b>	<b>0.12</b>		0.12	0.029	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Chromium</b>	<b>16</b>		0.59	0.098	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Copper</b>	<b>11</b>	<b>B</b>	0.59	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Lead</b>	<b>11</b>		0.29	0.10	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Nickel</b>	<b>14</b>		0.59	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Selenium</b>	<b>0.32</b>	<b>J *</b>	0.59	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Thallium</b>	<b>0.16</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Zinc</b>	<b>36</b>		1.2	0.40	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Sodium</b>	<b>74</b>		59	11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Potassium</b>	<b>880</b>		29	3.3	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	12	2.1	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
 SDG: 500-44516-1

**Client Sample ID: 915B-44-B12-1 DUP**

**Lab Sample ID: 500-44516-7**

Date Collected: 02/28/12 13:10

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 80.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000	B	12	5.1	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
Vanadium	30		0.29	0.045	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
Magnesium	8200	B	5.9	1.1	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
Boron	2.2	J	2.9	0.55	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
Manganese	560		0.59	0.083	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1
Cobalt	7.3		0.29	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 06:10	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:07	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:56	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	0.0061	mg/Kg	☼	03/06/12 13:20	03/07/12 10:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			03/08/12 18:12	1

## Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the 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.
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than 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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

Client Contact: Andrews Engineering, Inc  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Gray  
 email: cgray@andrews-eng.com

Laboratory: Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

Project Name: RAE 14  
 Project No.: IDOT2011-232  
 TAT:  5 BD  10 BD  5 HD  2 BD  Other

COC No.: 2 of 5  
 Lab Job No.: 500-44516  
 Sample Temp: (3.4) (3.7)

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
	915B-44-806-2	2/28	10:35	S	✓	✓					✓	✓	✓	✓		6-12
	915B-44-807-1	2/28	10:40	S	✓	✓				✓	✓	✓	✓	✓		0-6
	915B-44-807-2	2/28	10:50	S	✓	✓				✓	✓	✓	✓	✓		6-12
	915B-44-808-1	2/28	11:00	S	✓	✓					✓	✓	✓	✓		0-6
	915B-44-808-1DU1	2/28	11:05	S	✓	✓					✓	✓	✓	✓		0-6
	915B-44-808-2	2/28	11:15	S	✓	✓					✓	✓	✓	✓		6-12
	915B-44-809-1	2/28	11:20	S	✓	✓				✓	✓	✓	✓	✓		0-6
	915B-44-809-2	2/28	11:30	S	✓	✓				✓	✓	✓	✓	✓		6-12
1	915B-44-810-1	2/28	11:45	S	✓	✓				✓	✓	✓	✓	✓		0-6
2	915B-44-810-2	2/28	12:00	S	✓	✓				✓	✓	✓	✓	✓		6-12
3	915B-44-811-1	2/28	12:20	S	✓	✓				✓	✓	✓	✓	✓		0-6
4	915B-44-811-2	2/28	12:40	S	✓	✓				✓	✓	✓	✓	✓		6-12

Relinquished by: [Signature] Date/Time: 2/28/12 17:10 Received by: [Signature] Date/Time: 2/29/12 13:00  
 Relinquished by: [Signature] Date/Time: 2/29/12 Received by: [Signature] Date/Time: 2/29/12 11:00  
 Relinquished by: [Signature] Date/Time: 2/29/12 Received by: [Signature] Date/Time: 2/29/12 11:00





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com		<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com		Project Name: <u>RTA 14</u> Project No.: <u>IDOT2011-032</u> TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other		COC No: <u>3</u> of <u>5</u> Lab Job No.: <u>500-44516</u> Sample Temp:										
<b>Special Instructions:</b> See Table 1 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.				<b>ANALYSES</b>												
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
5	915B-44-B12-1	2/28	1:00	S	✓	✓					✓	✓	✓	✓		0-6'
6	915B-44-B12-2	2/28	1:20	S	✓	✓					✓	✓	✓	✓		6-12'
7	915B-44-B12-1NF	2/28	1:10	S	✓	✓					✓	✓	✓	✓		0-6'
8	915B-46-B01-1	2/28	1:50	S			✓	✓			✓	✓	✓	✓		0-4'
9	915B-46-B01-2	2/28	1:55	S			✓	✓			✓	✓	✓	✓		4-8'
10	915B-46-B02-1	2/28	2:15	S			✓	✓			✓	✓	✓	✓		0-4'
11	915B-46-B02-2	2/28	2:20	S			✓	✓			✓	✓	✓	✓		4-8'
12	915B-46-B03-1	2/28	2:30	S			✓	✓			✓	✓	✓	✓		0-4'
13	915B-46-B03-2	2/28	2:40	S			✓	✓			✓	✓	✓	✓		4-8'
14	915B-46-B04-1	2/28	2:50	S			✓	✓			✓	✓	✓	✓		0-4'
15	915B-46-B04-DUP	2/28	2:55	S			✓	✓			✓	✓	✓	✓		0-4'
16	915B-46-B04-2	2/28	3:00	S			✓	✓			✓	✓	✓	✓		4-8'
Relinquished by:				Date/Time: <u>2/28/12 17:10</u>				Received by: <u>[Signature]</u>				Date/Time: <u>2/29/12 12:0</u>				
Relinquished by:				Date/Time: <u>2/29/12 11:10</u>				Received by: <u>[Signature]</u>				Date/Time: <u>2/29/12 11:10</u>				
Relinquished by:				Date/Time: <u>2/29/12 11:10</u>				Received by: <u>[Signature]</u>				Date/Time: <u>2/29/12 11:10</u>				



# CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217 787-2334  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

**Project Name:** Met 14  
**Project No.:** IDOT2011-032  
**Sample Temp:**  15 BD  10 BD  5 BD  2 BD  Other

**COC No.:** 4 of 5  
**Lab Job No.:** 500-49516

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
17	915B-46-B05-1	2/28	3:10	S		✓	✓			✓	✓	✓	✓		0-4'
18	915B-46-B05-2	2/28	3:15	S		✓	✓			✓	✓	✓	✓		4-8'
19	915B-46-B06-1	2/28	4:15	S		✓	✓			✓	✓	✓	✓		0-4'
20	915B-46-B06-2	2/28	4:20	S		✓	✓			✓	✓	✓	✓		4-8'
	915B-47-B01-1	2/28	4:30	S	✓					✓	✓	✓	✓		0-5'
	915B-47-B01-2	2/28	4:50	S	✓					✓	✓	✓	✓		5-10'
	915B-47-B01-3	2/28	5:00	S	✓					✓	✓	✓	✓		10-15'
	915B-47-B01-DWA	2/28	4:40	S	✓					✓	✓	✓	✓		0-5'
	915B-23-B01	2/28	5:15	S	✓					✓	✓	✓	✓		0-10'
Relinquished by:	<i>[Signature]</i>	2/28/12													
Relinquished by:	<i>[Signature]</i>	2/28/12													
Relinquished by:	<i>[Signature]</i>	2/28/12													

**ANALYSES**

**Matrix Key:**  
 W - Water  
 S - Soil  
 SI - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other

**Received by:** *[Signature]* Date/Time: 2/28/12 11:10  
**Received by:** *[Signature]* Date/Time: 2/28/12 11:10  
**Received by:** *[Signature]* Date/Time: 2/28/12 11:10



# 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: 500-44515-1

TestAmerica Sample Delivery Group: 500-44515-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/21/2012 2:00:59 PM

Jodie Bracken

Data Delivery Analyst

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-1**

**Lab Sample ID: 500-44515-3**

Date Collected: 02/28/12 09:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 81.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0025	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Bromodichloromethane	<0.0050		0.0050	0.00076	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Bromoform	<0.0050		0.0050	0.00081	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Bromomethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
2-Butanone (MEK)	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Carbon disulfide	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Chlorobenzene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Chloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Chloroform	<0.0050		0.0050	0.00092	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Chloromethane	<0.0050		0.0050	0.00082	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00073	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00057	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Dibromochloromethane	<0.0050		0.0050	0.00069	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,2-Dichloroethane	<0.0050		0.0050	0.00051	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,1-Dichloroethene	<0.0050		0.0050	0.00079	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,2-Dichloropropane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00057	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
2-Hexanone	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.00085	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Styrene	<0.0050		0.0050	0.00063	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Tetrachloroethene	<0.0050		0.0050	0.00095	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Toluene	<0.0050		0.0050	0.00097	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00067	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Trichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Vinyl chloride	<0.0050		0.0050	0.00070	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/28/12 09:00	03/02/12 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/28/12 09:00	03/02/12 15:26	1
Dibromofluoromethane	98		73 - 122	02/28/12 09:00	03/02/12 15:26	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	02/28/12 09:00	03/02/12 15:26	1
Toluene-d8 (Surr)	109		72 - 122	02/28/12 09:00	03/02/12 15:26	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-1**

**Lab Sample ID: 500-44515-3**

**Date Collected: 02/28/12 09:00**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 81.2**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,4-Dinitrophenol	<0.81 *		0.81	0.21	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-1**

**Lab Sample ID: 500-44515-3**

Date Collected: 02/28/12 09:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 81.2

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Phenol	<0.20		0.20	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		30 - 119	03/12/12 18:17	03/13/12 15:55	1
2-Fluorophenol	79		30 - 110	03/12/12 18:17	03/13/12 15:55	1
Nitrobenzene-d5	71		30 - 115	03/12/12 18:17	03/13/12 15:55	1
Phenol-d5	71		31 - 110	03/12/12 18:17	03/13/12 15:55	1
Terphenyl-d14	84		36 - 134	03/12/12 18:17	03/13/12 15:55	1
2,4,6-Tribromophenol	84		35 - 137	03/12/12 18:17	03/13/12 15:55	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 19:34	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 19:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 19:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 19:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:34	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:34	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 19:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:34	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 19:34	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 19:34	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 19:34	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 19:34	1
<b>Boron</b>	<b>0.79</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 19:34	1
<b>Manganese</b>	<b>0.025</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:34	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 19:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Arsenic</b>	<b>6.3</b>		0.58	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Barium</b>	<b>48</b>		0.58	0.069	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Beryllium</b>	<b>0.69</b>		0.23	0.017	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Chromium</b>	<b>17</b>		0.58	0.097	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Copper</b>	<b>14</b>		0.58	0.16	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Lead</b>	<b>7.7</b>	<b>B</b>	0.29	0.10	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Nickel</b>	<b>13</b>		0.58	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Selenium</b>	<b>0.48</b>	<b>J</b>	0.58	0.17	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Zinc</b>	<b>39</b>		1.2	0.40	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Sodium</b>	<b>46</b>	<b>J</b>	58	11	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Potassium</b>	<b>1200</b>		29	3.3	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
<b>Calcium</b>	<b>1900</b>	<b>B</b>	12	2.0	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-1**

**Lab Sample ID: 500-44515-3**

Date Collected: 02/28/12 09:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 81.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18000		12	5.0	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Vanadium	29		0.29	0.044	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Magnesium	2500	B	5.8	1.1	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Boron	1.2	J	2.9	0.54	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Manganese	220		0.58	0.082	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1
Cobalt	4.6		0.29	0.030	mg/Kg	☼	03/06/12 16:22	03/08/12 05:21	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:20	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:04	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.018	0.0055	mg/Kg	☼	03/06/12 08:30	03/06/12 11:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			03/08/12 13:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-2**

**Lab Sample ID: 500-44515-4**

Date Collected: 02/28/12 09:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.0052	0.0026	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Benzene	<0.0052		0.0052	0.00056	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Bromodichloromethane	<0.0052		0.0052	0.00079	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Bromoform	<0.0052		0.0052	0.00085	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Bromomethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
2-Butanone (MEK)	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Carbon disulfide	<0.0052		0.0052	0.00074	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Chlorobenzene	<0.0052		0.0052	0.00082	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Chloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Chloroform	<0.0052		0.0052	0.00096	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Chloromethane	<0.0052		0.0052	0.00086	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00076	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00059	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Dibromochloromethane	<0.0052		0.0052	0.00072	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,2-Dichloroethane	<0.0052		0.0052	0.00053	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,1-Dichloroethene	<0.0052		0.0052	0.00082	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,2-Dichloropropane	<0.0052		0.0052	0.0012	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00059	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Ethylbenzene	<0.0052		0.0052	0.00078	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
2-Hexanone	<0.0052		0.0052	0.00074	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Methylene Chloride	<0.0052		0.0052	0.0015	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.00089	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00078	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Styrene	<0.0052		0.0052	0.00066	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Tetrachloroethene	<0.0052		0.0052	0.00099	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Toluene	<0.0052		0.0052	0.0010	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Vinyl chloride	<0.0052		0.0052	0.00073	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1
Xylenes, Total	<0.010		0.010	0.00073	mg/Kg	☼	02/28/12 09:15	03/02/12 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 09:15	03/02/12 15:52	1
Dibromofluoromethane	97		73 - 122	02/28/12 09:15	03/02/12 15:52	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	02/28/12 09:15	03/02/12 15:52	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 09:15	03/02/12 15:52	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-2**

**Lab Sample ID: 500-44515-4**

**Date Collected: 02/28/12 09:15**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 96.2**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Chrysene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,4-Dinitrophenol	<0.67 *		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Hexachlorocyclopentadiene	<0.67		0.67	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-2**

**Lab Sample ID: 500-44515-4**

Date Collected: 02/28/12 09:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.2

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		30 - 119	03/12/12 18:17	03/13/12 16:17	1
2-Fluorophenol	86		30 - 110	03/12/12 18:17	03/13/12 16:17	1
Nitrobenzene-d5	76		30 - 115	03/12/12 18:17	03/13/12 16:17	1
Phenol-d5	77		31 - 110	03/12/12 18:17	03/13/12 16:17	1
Terphenyl-d14	88		36 - 134	03/12/12 18:17	03/13/12 16:17	1
2,4,6-Tribromophenol	88		35 - 137	03/12/12 18:17	03/13/12 16:17	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 19:40	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 19:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 19:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 19:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:40	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 19:40	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:40	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 19:40	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 19:40	1
<b>Zinc</b>	<b>0.021</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 19:40	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 19:40	1
<b>Boron</b>	<b>0.66</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 19:40	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 19:40	1
<b>Cobalt</b>	<b>0.0063</b>	<b>J</b>	0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 19:40	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Arsenic</b>	<b>2.9</b>		0.49	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Barium</b>	<b>7.9</b>		0.49	0.058	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Beryllium</b>	<b>0.20</b>		0.19	0.014	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Cadmium</b>	<b>0.16</b>		0.097	0.024	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Chromium</b>	<b>3.6</b>		0.49	0.081	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Copper</b>	<b>8.2</b>		0.49	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Lead</b>	<b>2.8</b>	<b>B</b>	0.24	0.083	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Nickel</b>	<b>4.5</b>		0.49	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Thallium	<0.49		0.49	0.12	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Zinc</b>	<b>16</b>		0.97	0.33	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Sodium</b>	<b>250</b>		49	8.9	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Potassium</b>	<b>490</b>		24	2.7	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
<b>Calcium</b>	<b>120000</b>	<b>B E</b>	9.7	1.7	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B02-2**

**Lab Sample ID: 500-44515-4**

Date Collected: 02/28/12 09:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 96.2

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5900		9.7	4.2	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Vanadium	9.1		0.24	0.037	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Magnesium	53000	B E	4.9	0.94	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Boron	3.6		2.4	0.45	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Manganese	220		0.49	0.068	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1
Cobalt	1.9		0.24	0.025	mg/Kg	☼	03/06/12 16:22	03/08/12 05:27	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:21	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:05	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0063	J	0.015	0.0046	mg/Kg	☼	03/06/12 08:30	03/06/12 11:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU			03/08/12 13:44	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-1**

**Lab Sample ID: 500-44515-8**

Date Collected: 02/28/12 09:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 90.9

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0021	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Benzene	<0.0042		0.0042	0.00046	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Bromodichloromethane	<0.0042		0.0042	0.00064	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Bromoform	<0.0042	*	0.0042	0.00068	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Bromomethane	<0.0042		0.0042	0.00090	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
2-Butanone (MEK)	<0.0042		0.0042	0.00091	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Carbon disulfide	<0.0042		0.0042	0.00060	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Carbon tetrachloride	<0.0042		0.0042	0.00092	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Chlorobenzene	<0.0042		0.0042	0.00067	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Chloroethane	<0.0042		0.0042	0.00088	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Chloroform	<0.0042		0.0042	0.00078	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Chloromethane	<0.0042		0.0042	0.00069	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00062	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00048	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Dibromochloromethane	<0.0042		0.0042	0.00058	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,2-Dichloroethane	<0.0042		0.0042	0.00043	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,1-Dichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,2-Dichloropropane	<0.0042		0.0042	0.00095	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00048	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Ethylbenzene	<0.0042		0.0042	0.00063	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
2-Hexanone	<0.0042		0.0042	0.00060	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Methylene Chloride	<0.0042		0.0042	0.0012	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00072	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00063	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Styrene	<0.0042		0.0042	0.00053	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Tetrachloroethene	<0.0042		0.0042	0.00080	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Toluene	<0.0042		0.0042	0.00082	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00056	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Trichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Vinyl chloride	<0.0042		0.0042	0.00059	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1
Xylenes, Total	<0.0084		0.0084	0.00059	mg/Kg	☼	02/28/12 09:50	03/05/12 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		76 - 120	02/28/12 09:50	03/05/12 15:32	1
Dibromofluoromethane	98		73 - 122	02/28/12 09:50	03/05/12 15:32	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/28/12 09:50	03/05/12 15:32	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 09:50	03/05/12 15:32	1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Acenaphthylene	<0.032		0.032	0.0083	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
<b>Benzo[a]pyrene</b>	<b>0.0082</b>	<b>J</b>	0.036	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
<b>Benzo[b]fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.036	0.0070	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-1**

**Lab Sample ID: 500-44515-8**

**Date Collected: 02/28/12 09:50**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 90.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,4-Dinitrophenol	<0.73 *		0.73	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-1**

**Lab Sample ID: 500-44515-8**

Date Collected: 02/28/12 09:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 90.9

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Phenol	<0.18		0.18	0.057	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		30 - 119	03/12/12 18:17	03/13/12 17:43	1
2-Fluorophenol	71		30 - 110	03/12/12 18:17	03/13/12 17:43	1
Nitrobenzene-d5	64		30 - 115	03/12/12 18:17	03/13/12 17:43	1
Phenol-d5	68		31 - 110	03/12/12 18:17	03/13/12 17:43	1
Terphenyl-d14	76		36 - 134	03/12/12 18:17	03/13/12 17:43	1
2,4,6-Tribromophenol	86		35 - 137	03/12/12 18:17	03/13/12 17:43	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:20	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 20:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 20:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:20	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:20	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 20:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:20	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:20	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:20	1
<b>Zinc</b>	<b>0.040</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 20:20	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 20:20	1
<b>Boron</b>	<b>0.70</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 20:20	1
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:20	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:20	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Arsenic</b>	<b>5.2</b>		0.54	0.12	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Barium</b>	<b>39</b>		0.54	0.064	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Beryllium</b>	<b>0.46</b>		0.22	0.016	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Cadmium</b>	<b>0.052</b>	<b>J</b>	0.11	0.027	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Chromium</b>	<b>11</b>		0.54	0.090	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Copper</b>	<b>10</b>		0.54	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Lead</b>	<b>5.5</b>	<b>B</b>	0.27	0.093	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Nickel</b>	<b>11</b>		0.54	0.12	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Zinc</b>	<b>26</b>		1.1	0.37	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Sodium</b>	<b>110</b>		54	9.9	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Potassium</b>	<b>750</b>		27	3.1	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
<b>Calcium</b>	<b>7100</b>	<b>B</b>	11	1.9	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
 SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-1**

**Lab Sample ID: 500-44515-8**

Date Collected: 02/28/12 09:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 90.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13000		11	4.7	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Vanadium	18		0.27	0.041	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Magnesium	5000	B	5.4	1.0	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Boron	1.4	J	2.7	0.50	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Manganese	310		0.54	0.076	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1
Cobalt	3.5		0.27	0.028	mg/Kg	☼	03/06/12 16:22	03/08/12 05:52	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:26	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:16	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0055	mg/Kg	☼	03/06/12 08:30	03/06/12 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			03/08/12 13:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-2**

**Lab Sample ID: 500-44515-9**

Date Collected: 02/28/12 10:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 93.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Benzene	<0.0047		0.0047	0.00050	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Bromoform	<0.0047		0.0047	0.00076	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Carbon disulfide	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Dibromochloromethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
2-Hexanone	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00079	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Vinyl chloride	<0.0047		0.0047	0.00065	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1
Xylenes, Total	<0.0093		0.0093	0.00065	mg/Kg	☼	02/28/12 10:00	03/02/12 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	02/28/12 10:00	03/02/12 18:02	1
Dibromofluoromethane	99		73 - 122	02/28/12 10:00	03/02/12 18:02	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/28/12 10:00	03/02/12 18:02	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 10:00	03/02/12 18:02	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-2**

**Lab Sample ID: 500-44515-9**

**Date Collected: 02/28/12 10:00**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 93.8**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Chrysene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0094	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,4-Dinitrophenol	<0.68 *		0.68	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Hexachlorobenzene	<0.068		0.068	0.0066	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Naphthalene	<0.033		0.033	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2-Nitrophenol	<0.33		0.33	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-2**

**Lab Sample ID: 500-44515-9**

Date Collected: 02/28/12 10:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 93.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		30 - 119	03/12/12 18:17	03/13/12 18:05	1
2-Fluorophenol	77		30 - 110	03/12/12 18:17	03/13/12 18:05	1
Nitrobenzene-d5	66		30 - 115	03/12/12 18:17	03/13/12 18:05	1
Phenol-d5	73		31 - 110	03/12/12 18:17	03/13/12 18:05	1
Terphenyl-d14	83		36 - 134	03/12/12 18:17	03/13/12 18:05	1
2,4,6-Tribromophenol	77		35 - 137	03/12/12 18:17	03/13/12 18:05	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:26	1
<b>Barium</b>	<b>0.098</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 20:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 20:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 20:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:26	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 20:26	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:26	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:26	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:26	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 20:26	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 20:26	1
<b>Boron</b>	<b>0.65</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 20:26	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:26	1
<b>Cobalt</b>	<b>0.0080</b>	<b>J</b>	0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Arsenic</b>	<b>3.2</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Barium</b>	<b>14</b>		0.50	0.059	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Beryllium</b>	<b>0.28</b>		0.20	0.015	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Cadmium</b>	<b>0.18</b>		0.10	0.025	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Chromium</b>	<b>3.7</b>		0.50	0.083	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Copper</b>	<b>10</b>		0.50	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Lead</b>	<b>2.9</b>	<b>B</b>	0.25	0.086	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Nickel</b>	<b>6.3</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Zinc</b>	<b>23</b>		1.0	0.34	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Sodium</b>	<b>180</b>		50	9.1	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Potassium</b>	<b>580</b>		25	2.8	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
<b>Calcium</b>	<b>73000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B04-2**

**Lab Sample ID: 500-44515-9**

Date Collected: 02/28/12 10:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 93.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7300		10	4.3	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Vanadium	12		0.25	0.038	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Magnesium	42000	B	5.0	0.97	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Boron	3.3		2.5	0.47	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Manganese	250		0.50	0.070	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1
Cobalt	2.6		0.25	0.026	mg/Kg	☼	03/06/12 16:22	03/08/12 05:58	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:27	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:18	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0051	J	0.015	0.0047	mg/Kg	☼	03/06/12 08:30	03/06/12 12:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.91		0.200	0.200	SU			03/08/12 13:56	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-1**

**Lab Sample ID: 500-44515-10**

**Date Collected: 02/28/12 10:10**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 88.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0022	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Benzene	<0.0046		0.0046	0.00049	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Bromodichloromethane	<0.0046		0.0046	0.00069	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Bromoform	<0.0046		0.0046	0.00074	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Bromomethane	<0.0046		0.0046	0.00098	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
2-Butanone (MEK)	<0.0046		0.0046	0.00098	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Carbon disulfide	<0.0046		0.0046	0.00065	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Chlorobenzene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Chloroethane	<0.0046		0.0046	0.00096	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Chloroform	<0.0046		0.0046	0.00084	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Chloromethane	<0.0046		0.0046	0.00075	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00067	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00052	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Dibromochloromethane	<0.0046		0.0046	0.00063	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,2-Dichloroethane	<0.0046		0.0046	0.00046	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,1-Dichloroethene	<0.0046		0.0046	0.00072	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,2-Dichloropropane	<0.0046		0.0046	0.0010	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00052	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Ethylbenzene	<0.0046		0.0046	0.00068	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
2-Hexanone	<0.0046		0.0046	0.00065	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Methylene Chloride	<0.0046		0.0046	0.0013	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00077	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00068	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Styrene	<0.0046		0.0046	0.00057	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Tetrachloroethene	<0.0046		0.0046	0.00087	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Toluene	<0.0046		0.0046	0.00088	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00087	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00061	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Trichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Vinyl chloride	<0.0046		0.0046	0.00064	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1
Xylenes, Total	<0.0091		0.0091	0.00064	mg/Kg	☼	02/28/12 10:10	03/02/12 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 10:10	03/02/12 18:28	1
Dibromofluoromethane	93		73 - 122	02/28/12 10:10	03/02/12 18:28	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/28/12 10:10	03/02/12 18:28	1
Toluene-d8 (Surr)	109		72 - 122	02/28/12 10:10	03/02/12 18:28	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Acenaphthylene	<0.033		0.033	0.0085	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-1**

**Lab Sample ID: 500-44515-10**

Date Collected: 02/28/12 10:10

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 88.7

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,4-Dinitrophenol	<0.74 *		0.74	0.19	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-1**

**Lab Sample ID: 500-44515-10**

**Date Collected: 02/28/12 10:10**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 88.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Phenol	<0.19		0.19	0.058	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		30 - 119	03/12/12 18:17	03/13/12 18:26	1
2-Fluorophenol	75		30 - 110	03/12/12 18:17	03/13/12 18:26	1
Nitrobenzene-d5	66		30 - 115	03/12/12 18:17	03/13/12 18:26	1
Phenol-d5	73		31 - 110	03/12/12 18:17	03/13/12 18:26	1
Terphenyl-d14	85		36 - 134	03/12/12 18:17	03/13/12 18:26	1
2,4,6-Tribromophenol	91		35 - 137	03/12/12 18:17	03/13/12 18:26	1

**Method: 8082 - PCBs**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.019		0.019	0.0065	mg/Kg	☼	03/06/12 07:26	03/06/12 22:01	1
PCB-1221	<0.019		0.019	0.0081	mg/Kg	☼	03/06/12 07:26	03/06/12 22:01	1
PCB-1232	<0.019		0.019	0.0081	mg/Kg	☼	03/06/12 07:26	03/06/12 22:01	1
PCB-1242	<0.019		0.019	0.0061	mg/Kg	☼	03/06/12 07:26	03/06/12 22:01	1
PCB-1248	<0.019		0.019	0.0073	mg/Kg	☼	03/06/12 07:26	03/06/12 22:01	1
PCB-1254	<0.019		0.019	0.0040	mg/Kg	☼	03/06/12 07:26	03/06/12 22:01	1
PCB-1260	<0.019		0.019	0.0091	mg/Kg	☼	03/06/12 07:26	03/06/12 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		50 - 116	03/06/12 07:26	03/06/12 22:01	1
DCB Decachlorobiphenyl	97		48 - 142	03/06/12 07:26	03/06/12 22:01	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:32	1
<b>Barium</b>	<b>0.99</b>		0.50	0.010	mg/L		03/07/12 16:00	03/08/12 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 20:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:32	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 20:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:32	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:32	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:32	1
<b>Zinc</b>	<b>0.039 J</b>		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 20:32	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 20:32	1
<b>Boron</b>	<b>0.67</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 20:32	1
<b>Manganese</b>	<b>0.78</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:32	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
<b>Arsenic</b>	<b>6.0</b>		0.55	0.12	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-1**

**Lab Sample ID: 500-44515-10**

Date Collected: 02/28/12 10:10

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 88.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	61		0.55	0.065	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Beryllium	0.63		0.22	0.016	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Cadmium	<0.11		0.11	0.027	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Chromium	14		0.55	0.092	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Copper	13		0.55	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Lead	8.4	B	0.27	0.094	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Nickel	15		0.55	0.12	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Selenium	0.41	J	0.55	0.16	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Thallium	0.24	J	0.55	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Zinc	34		1.1	0.38	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Sodium	130		55	10	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Potassium	630		27	3.1	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Calcium	2700	B	11	1.9	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Iron	16000		11	4.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Vanadium	27		0.27	0.042	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Magnesium	2800	B	5.5	1.1	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Boron	1.6	J	2.7	0.51	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Manganese	360		0.55	0.077	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1
Cobalt	6.4		0.27	0.029	mg/Kg	☼	03/06/12 16:22	03/08/12 06:19	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:28	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0054	mg/Kg	☼	03/06/12 08:30	03/06/12 12:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.08		0.200	0.200	SU			03/08/12 13:58	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-2**

**Lab Sample ID: 500-44515-11**

Date Collected: 02/28/12 10:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 94.7

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0055		0.0055	0.0027	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Benzene	<0.0055		0.0055	0.00059	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Bromodichloromethane	<0.0055		0.0055	0.00083	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Bromoform	<0.0055		0.0055	0.00088	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Bromomethane	<0.0055		0.0055	0.0012	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
2-Butanone (MEK)	<0.0055		0.0055	0.0012	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Carbon disulfide	<0.0055		0.0055	0.00077	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Carbon tetrachloride	<0.0055		0.0055	0.0012	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Chlorobenzene	<0.0055		0.0055	0.00086	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Chloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Chloroform	<0.0055		0.0055	0.0010	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Chloromethane	<0.0055		0.0055	0.00089	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00080	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00062	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Dibromochloromethane	<0.0055		0.0055	0.00075	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,1-Dichloroethane	<0.0055		0.0055	0.00086	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,2-Dichloroethane	<0.0055		0.0055	0.00056	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,1-Dichloroethene	<0.0055		0.0055	0.00086	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,2-Dichloropropane	<0.0055		0.0055	0.0012	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00062	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Ethylbenzene	<0.0055		0.0055	0.00082	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
2-Hexanone	<0.0055		0.0055	0.00077	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.00093	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00082	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Styrene	<0.0055		0.0055	0.00069	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.00074	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Tetrachloroethene	<0.0055		0.0055	0.0010	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Toluene	<0.0055		0.0055	0.0011	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.0012	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.0010	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00073	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Trichloroethene	<0.0055		0.0055	0.00088	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Vinyl chloride	<0.0055		0.0055	0.00076	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1
Xylenes, Total	<0.011		0.011	0.00076	mg/Kg	☼	02/28/12 10:20	03/02/12 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	02/28/12 10:20	03/02/12 18:54	1
Dibromofluoromethane	98		73 - 122	02/28/12 10:20	03/02/12 18:54	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/28/12 10:20	03/02/12 18:54	1
Toluene-d8 (Surr)	109		72 - 122	02/28/12 10:20	03/02/12 18:54	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-2**

**Lab Sample ID: 500-44515-11**

**Date Collected: 02/28/12 10:20**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 94.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,4-Dinitrophenol	<0.67 *		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-2**

**Lab Sample ID: 500-44515-11**

**Date Collected: 02/28/12 10:20**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 94.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		30 - 119	03/12/12 18:17	03/13/12 18:48	1
2-Fluorophenol	94		30 - 110	03/12/12 18:17	03/13/12 18:48	1
Nitrobenzene-d5	86		30 - 115	03/12/12 18:17	03/13/12 18:48	1
Phenol-d5	83		31 - 110	03/12/12 18:17	03/13/12 18:48	1
Terphenyl-d14	89		36 - 134	03/12/12 18:17	03/13/12 18:48	1
2,4,6-Tribromophenol	91		35 - 137	03/12/12 18:17	03/13/12 18:48	1

**Method: 8082 - PCBs**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.018		0.018	0.0062	mg/Kg	☼	03/06/12 07:26	03/06/12 22:16	1
PCB-1221	<0.018		0.018	0.0077	mg/Kg	☼	03/06/12 07:26	03/06/12 22:16	1
PCB-1232	<0.018		0.018	0.0077	mg/Kg	☼	03/06/12 07:26	03/06/12 22:16	1
PCB-1242	<0.018		0.018	0.0058	mg/Kg	☼	03/06/12 07:26	03/06/12 22:16	1
PCB-1248	<0.018		0.018	0.0069	mg/Kg	☼	03/06/12 07:26	03/06/12 22:16	1
PCB-1254	<0.018		0.018	0.0038	mg/Kg	☼	03/06/12 07:26	03/06/12 22:16	1
PCB-1260	<0.018		0.018	0.0086	mg/Kg	☼	03/06/12 07:26	03/06/12 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		50 - 116	03/06/12 07:26	03/06/12 22:16	1
DCB Decachlorobiphenyl	97		48 - 142	03/06/12 07:26	03/06/12 22:16	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:38	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 20:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:38	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 20:38	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:38	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:38	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:38	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 20:38	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 20:38	1
<b>Boron</b>	<b>0.58</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 20:38	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:38	1
<b>Cobalt</b>	<b>0.0063</b>	<b>J</b>	0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:38	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
<b>Arsenic</b>	<b>2.6</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B05-2**

**Lab Sample ID: 500-44515-11**

Date Collected: 02/28/12 10:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 94.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	9.5		0.50	0.059	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Beryllium	0.24		0.20	0.015	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Cadmium	0.12		0.099	0.025	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Chromium	3.8		0.50	0.083	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Copper	8.4		0.50	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Lead	5.3	B	0.25	0.085	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Nickel	4.2		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Zinc	15		0.99	0.34	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Sodium	180		50	9.1	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Potassium	390		25	2.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Calcium	81000	B E	9.9	1.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Iron	5700		9.9	4.3	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Vanadium	9.2		0.25	0.038	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Magnesium	42000	B	5.0	0.96	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Boron	3.5		2.5	0.46	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Manganese	190		0.50	0.070	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1
Cobalt	2.0		0.25	0.026	mg/Kg	☼	03/06/12 16:22	03/08/12 06:25	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:29	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:25	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0066	J	0.016	0.0049	mg/Kg	☼	03/06/12 08:30	03/06/12 12:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.88		0.200	0.200	SU			03/08/12 14:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-1**

**Lab Sample ID: 500-44515-12**

**Date Collected: 02/28/12 10:30**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 88.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Benzene	<0.0049		0.0049	0.00053	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Bromodichloromethane	<0.0049		0.0049	0.00075	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Bromoform	<0.0049		0.0049	0.00080	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Bromomethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
2-Butanone (MEK)	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Carbon disulfide	<0.0049		0.0049	0.00070	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Chlorobenzene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Chloroform	<0.0049		0.0049	0.00091	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Chloromethane	<0.0049		0.0049	0.00081	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00072	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00056	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Dibromochloromethane	<0.0049		0.0049	0.00068	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,1-Dichloroethene	<0.0049		0.0049	0.00078	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00056	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Ethylbenzene	<0.0049		0.0049	0.00074	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
2-Hexanone	<0.0049		0.0049	0.00070	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00084	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00074	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Styrene	<0.0049		0.0049	0.00062	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Tetrachloroethene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Toluene	<0.0049		0.0049	0.00096	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00095	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Vinyl chloride	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1
Xylenes, Total	<0.0099		0.0099	0.00069	mg/Kg	☼	02/28/12 10:30	03/02/12 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 10:30	03/02/12 19:20	1
Dibromofluoromethane	95		73 - 122	02/28/12 10:30	03/02/12 19:20	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	02/28/12 10:30	03/02/12 19:20	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 10:30	03/02/12 19:20	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Acenaphthylene	<0.032		0.032	0.0082	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Benzo[a]anthracene	<0.035		0.035	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-1**

**Lab Sample ID: 500-44515-12**

Date Collected: 02/28/12 10:30

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 88.0

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,4-Dinitrophenol	<0.72 *		0.72	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-1**

**Lab Sample ID: 500-44515-12**

Date Collected: 02/28/12 10:30

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 88.0

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Phenol	<0.18		0.18	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		30 - 119	03/12/12 18:17	03/13/12 19:09	1
2-Fluorophenol	87		30 - 110	03/12/12 18:17	03/13/12 19:09	1
Nitrobenzene-d5	82		30 - 115	03/12/12 18:17	03/13/12 19:09	1
Phenol-d5	77		31 - 110	03/12/12 18:17	03/13/12 19:09	1
Terphenyl-d14	94		36 - 134	03/12/12 18:17	03/13/12 19:09	1
2,4,6-Tribromophenol	75		35 - 137	03/12/12 18:17	03/13/12 19:09	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:45	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 20:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:45	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 20:45	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:45	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:45	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:45	1
Zinc	<0.10		0.10	0.020	mg/L		03/07/12 16:00	03/08/12 20:45	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 20:45	1
<b>Boron</b>	<b>0.62</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 20:45	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:45	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Arsenic</b>	<b>6.4</b>		0.55	0.12	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Barium</b>	<b>58</b>		0.55	0.065	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Beryllium</b>	<b>0.54</b>		0.22	0.016	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.027	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Chromium</b>	<b>13</b>		0.55	0.092	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Copper</b>	<b>15</b>		0.55	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Lead</b>	<b>8.1</b>	<b>B</b>	0.27	0.094	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Nickel</b>	<b>13</b>		0.55	0.12	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Thallium</b>	<b>0.18</b>	<b>J</b>	0.55	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Zinc</b>	<b>34</b>		1.1	0.38	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Sodium</b>	<b>110</b>		55	10	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Potassium</b>	<b>690</b>		27	3.1	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
<b>Calcium</b>	<b>22000</b>	<b>B</b>	11	1.9	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-1**

**Lab Sample ID: 500-44515-12**

Date Collected: 02/28/12 10:30

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 88.0

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		11	4.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
Vanadium	25		0.27	0.042	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
Magnesium	13000	B	5.5	1.1	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
Boron	1.9	J	2.7	0.51	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
Manganese	420		0.55	0.077	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1
Cobalt	5.4		0.27	0.029	mg/Kg	☼	03/06/12 16:22	03/08/12 06:31	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:30	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:26	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0067	J	0.019	0.0057	mg/Kg	☼	03/06/12 08:30	03/06/12 12:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			03/08/12 14:03	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-2**

**Lab Sample ID: 500-44515-13**

Date Collected: 02/28/12 10:35

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 94.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0025	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Benzene	<0.0051		0.0051	0.00055	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Bromodichloromethane	<0.0051		0.0051	0.00077	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Bromoform	<0.0051	*	0.0051	0.00082	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Bromomethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
2-Butanone (MEK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Carbon disulfide	<0.0051		0.0051	0.00072	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Chlorobenzene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Chloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Chloroform	<0.0051		0.0051	0.00094	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Chloromethane	<0.0051		0.0051	0.00084	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00074	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00058	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Dibromochloromethane	<0.0051		0.0051	0.00070	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,2-Dichloroethane	<0.0051		0.0051	0.00052	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,1-Dichloroethene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,2-Dichloropropane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00058	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Ethylbenzene	<0.0051		0.0051	0.00076	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
2-Hexanone	<0.0051		0.0051	0.00072	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.00087	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00076	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Styrene	<0.0051		0.0051	0.00064	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Tetrachloroethene	<0.0051		0.0051	0.00097	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Toluene	<0.0051		0.0051	0.00099	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00068	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Trichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Vinyl chloride	<0.0051		0.0051	0.00071	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/28/12 10:35	03/06/12 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		76 - 120	02/28/12 10:35	03/06/12 11:24	1
Dibromofluoromethane	95		73 - 122	02/28/12 10:35	03/06/12 11:24	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	02/28/12 10:35	03/06/12 11:24	1
Toluene-d8 (Surr)	111		72 - 122	02/28/12 10:35	03/06/12 11:24	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Benzo[a]anthracene	<0.033		0.033	0.0069	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Benzo[a]pyrene	<0.033		0.033	0.0060	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Benzo[b]fluoranthene	<0.033		0.033	0.0064	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-2**

**Lab Sample ID: 500-44515-13**

**Date Collected: 02/28/12 10:35**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 94.3**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,4-Dinitrophenol	<0.67 *		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Fluorene	<0.033		0.033	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-2**

**Lab Sample ID: 500-44515-13**

Date Collected: 02/28/12 10:35

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 94.3

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		30 - 119	03/12/12 18:17	03/13/12 19:31	1
2-Fluorophenol	78		30 - 110	03/12/12 18:17	03/13/12 19:31	1
Nitrobenzene-d5	74		30 - 115	03/12/12 18:17	03/13/12 19:31	1
Phenol-d5	71		31 - 110	03/12/12 18:17	03/13/12 19:31	1
Terphenyl-d14	81		36 - 134	03/12/12 18:17	03/13/12 19:31	1
2,4,6-Tribromophenol	76		35 - 137	03/12/12 18:17	03/13/12 19:31	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:51	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 20:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 20:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 20:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:51	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 20:51	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:51	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:51	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:51	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 20:51	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 20:51	1
<b>Boron</b>	<b>0.97</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 20:51	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:51	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Arsenic</b>	<b>2.0</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Barium</b>	<b>7.5</b>		0.51	0.060	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Beryllium</b>	<b>0.22</b>		0.20	0.015	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Cadmium</b>	<b>0.14</b>		0.10	0.025	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Chromium</b>	<b>4.2</b>		0.51	0.085	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Copper</b>	<b>7.2</b>		0.51	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Lead</b>	<b>2.5</b>	<b>B</b>	0.25	0.087	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Nickel</b>	<b>4.6</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Zinc</b>	<b>15</b>		1.0	0.35	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Sodium</b>	<b>170</b>		51	9.3	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Potassium</b>	<b>370</b>		25	2.9	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
<b>Calcium</b>	<b>89000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B06-2**

**Lab Sample ID: 500-44515-13**

Date Collected: 02/28/12 10:35

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 94.3

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4900		10	4.4	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Vanadium	8.2		0.25	0.038	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Magnesium	43000	B	5.1	0.98	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Boron	3.9		2.5	0.47	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Manganese	170		0.51	0.071	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1
Cobalt	1.9		0.25	0.027	mg/Kg	☼	03/06/12 16:22	03/08/12 06:37	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:31	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:28	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0073	J	0.018	0.0054	mg/Kg	☼	03/06/12 08:30	03/06/12 12:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.86		0.200	0.200	SU			03/08/12 14:05	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-1**

**Lab Sample ID: 500-44515-14**

Date Collected: 02/28/12 10:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0044	0.0021	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Benzene	<0.0044		0.0044	0.00047	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Bromodichloromethane	<0.0044		0.0044	0.00066	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Bromoform	<0.0044	*	0.0044	0.00071	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Bromomethane	<0.0044		0.0044	0.00093	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
2-Butanone (MEK)	<0.0044		0.0044	0.00094	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Carbon disulfide	<0.0044		0.0044	0.00062	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Chlorobenzene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Chloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Chloroform	<0.0044		0.0044	0.00080	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Chloromethane	<0.0044		0.0044	0.00071	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00064	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Dibromochloromethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,2-Dichloroethane	<0.0044		0.0044	0.00044	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,1-Dichloroethene	<0.0044		0.0044	0.00069	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,2-Dichloropropane	<0.0044		0.0044	0.00098	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Ethylbenzene	<0.0044		0.0044	0.00065	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
2-Hexanone	<0.0044		0.0044	0.00062	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00074	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00065	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Styrene	<0.0044		0.0044	0.00055	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Tetrachloroethene	<0.0044		0.0044	0.00083	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Toluene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00098	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00058	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Trichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Vinyl chloride	<0.0044		0.0044	0.00061	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1
Xylenes, Total	<0.0087		0.0087	0.00061	mg/Kg	☼	02/28/12 10:40	03/06/12 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		76 - 120	02/28/12 10:40	03/06/12 11:50	1
Dibromofluoromethane	92		73 - 122	02/28/12 10:40	03/06/12 11:50	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	02/28/12 10:40	03/06/12 11:50	1
Toluene-d8 (Surr)	110		72 - 122	02/28/12 10:40	03/06/12 11:50	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-1**

**Lab Sample ID: 500-44515-14**

**Date Collected: 02/28/12 10:40**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Chrysene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0094	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,4-Dimethylphenol	<0.33		0.33	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.082	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,4-Dinitrophenol	<0.68 *		0.68	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Hexachlorobenzene	<0.068		0.068	0.0066	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Naphthalene	<0.033		0.033	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2-Nitrophenol	<0.33		0.33	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-1**

**Lab Sample ID: 500-44515-14**

**Date Collected: 02/28/12 10:40**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		30 - 119	03/12/12 18:17	03/13/12 19:52	1
2-Fluorophenol	88		30 - 110	03/12/12 18:17	03/13/12 19:52	1
Nitrobenzene-d5	82		30 - 115	03/12/12 18:17	03/13/12 19:52	1
Phenol-d5	78		31 - 110	03/12/12 18:17	03/13/12 19:52	1
Terphenyl-d14	94		36 - 134	03/12/12 18:17	03/13/12 19:52	1
2,4,6-Tribromophenol	92		35 - 137	03/12/12 18:17	03/13/12 19:52	1

**Method: 8082 - PCBs**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017	0.0061	mg/Kg	☼	03/06/12 07:26	03/06/12 22:43	1
PCB-1221	<0.017		0.017	0.0076	mg/Kg	☼	03/06/12 07:26	03/06/12 22:43	1
PCB-1232	<0.017		0.017	0.0075	mg/Kg	☼	03/06/12 07:26	03/06/12 22:43	1
PCB-1242	<0.017		0.017	0.0057	mg/Kg	☼	03/06/12 07:26	03/06/12 22:43	1
PCB-1248	<0.017		0.017	0.0068	mg/Kg	☼	03/06/12 07:26	03/06/12 22:43	1
PCB-1254	<0.017		0.017	0.0037	mg/Kg	☼	03/06/12 07:26	03/06/12 22:43	1
PCB-1260	<0.017		0.017	0.0085	mg/Kg	☼	03/06/12 07:26	03/06/12 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		50 - 116	03/06/12 07:26	03/06/12 22:43	1
DCB Decachlorobiphenyl	96		48 - 142	03/06/12 07:26	03/06/12 22:43	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:57	1
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 20:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 20:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 20:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:57	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:57	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 20:57	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:57	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 20:57	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:57	1
<b>Zinc</b>	<b>0.029</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 20:57	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 20:57	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 20:57	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 20:57	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 20:57	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
<b>Arsenic</b>	<b>3.0</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-1**

**Lab Sample ID: 500-44515-14**

Date Collected: 02/28/12 10:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	8.0		0.50	0.059	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Beryllium	0.24		0.20	0.015	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Cadmium	0.17		0.099	0.025	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Chromium	3.6		0.50	0.083	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Copper	8.3		0.50	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Lead	2.3	B	0.25	0.085	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Nickel	5.0		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Zinc	25		0.99	0.34	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Sodium	250		50	9.1	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Potassium	460		25	2.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Calcium	120000	B E	9.9	1.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Iron	6300		9.9	4.3	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Vanadium	8.4		0.25	0.038	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Magnesium	45000	B	5.0	0.96	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Boron	3.3		2.5	0.46	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Manganese	260		0.50	0.070	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1
Cobalt	2.2		0.25	0.026	mg/Kg	☼	03/06/12 16:22	03/08/12 06:44	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:32	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:30	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0056	J	0.016	0.0048	mg/Kg	☼	03/06/12 08:30	03/06/12 12:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU			03/08/12 14:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-2**

**Lab Sample ID: 500-44515-15**

Date Collected: 02/28/12 10:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.7

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0045	0.0022	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Benzene	<0.0045		0.0045	0.00048	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Bromodichloromethane	<0.0045		0.0045	0.00068	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Bromoform	<0.0045	*	0.0045	0.00072	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Bromomethane	<0.0045		0.0045	0.00096	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
2-Butanone (MEK)	<0.0045		0.0045	0.00097	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Carbon disulfide	<0.0045		0.0045	0.00063	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Chlorobenzene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Chloroethane	<0.0045		0.0045	0.00094	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Chloroform	<0.0045		0.0045	0.00082	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Chloromethane	<0.0045		0.0045	0.00073	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00065	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00051	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Dibromochloromethane	<0.0045		0.0045	0.00062	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,2-Dichloroethane	<0.0045		0.0045	0.00046	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,1-Dichloroethene	<0.0045		0.0045	0.00071	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,2-Dichloropropane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00051	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Ethylbenzene	<0.0045		0.0045	0.00067	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
2-Hexanone	<0.0045		0.0045	0.00063	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Methylene Chloride	<0.0045		0.0045	0.0013	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00076	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00067	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Styrene	<0.0045		0.0045	0.00056	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Tetrachloroethene	<0.0045		0.0045	0.00085	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Toluene	<0.0045		0.0045	0.00087	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00060	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Trichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Vinyl chloride	<0.0045		0.0045	0.00063	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1
Xylenes, Total	<0.0089		0.0089	0.00063	mg/Kg	☼	02/28/12 10:50	03/06/12 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 10:50	03/06/12 12:16	1
Dibromofluoromethane	95		73 - 122	02/28/12 10:50	03/06/12 12:16	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	02/28/12 10:50	03/06/12 12:16	1
Toluene-d8 (Surr)	110		72 - 122	02/28/12 10:50	03/06/12 12:16	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Acenaphthylene	<0.031		0.031	0.0078	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Benzo[a]anthracene	<0.034		0.034	0.0071	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-2**

**Lab Sample ID: 500-44515-15**

**Date Collected: 02/28/12 10:50**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Chrysene	<0.034		0.034	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0095	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.082	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,4-Dinitrophenol	<0.68 *		0.68	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Hexachlorobenzene	<0.068		0.068	0.0067	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Naphthalene	<0.034		0.034	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
3-Nitroaniline	<0.34		0.34	0.065	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
4-Nitroaniline	<0.34		0.34	0.069	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-2**

**Lab Sample ID: 500-44515-15**

**Date Collected: 02/28/12 10:50**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		30 - 119	03/12/12 18:17	03/13/12 20:14	1
2-Fluorophenol	78		30 - 110	03/12/12 18:17	03/13/12 20:14	1
Nitrobenzene-d5	74		30 - 115	03/12/12 18:17	03/13/12 20:14	1
Phenol-d5	69		31 - 110	03/12/12 18:17	03/13/12 20:14	1
Terphenyl-d14	79		36 - 134	03/12/12 18:17	03/13/12 20:14	1
2,4,6-Tribromophenol	63		35 - 137	03/12/12 18:17	03/13/12 20:14	1

**Method: 8082 - PCBs**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.017		0.017	0.0060	mg/Kg	☼	03/06/12 07:26	03/06/12 22:57	1
PCB-1221	<0.017		0.017	0.0074	mg/Kg	☼	03/06/12 07:26	03/06/12 22:57	1
PCB-1232	<0.017		0.017	0.0073	mg/Kg	☼	03/06/12 07:26	03/06/12 22:57	1
PCB-1242	<0.017		0.017	0.0055	mg/Kg	☼	03/06/12 07:26	03/06/12 22:57	1
PCB-1248	<0.017		0.017	0.0066	mg/Kg	☼	03/06/12 07:26	03/06/12 22:57	1
PCB-1254	<0.017		0.017	0.0036	mg/Kg	☼	03/06/12 07:26	03/06/12 22:57	1
PCB-1260	<0.017		0.017	0.0083	mg/Kg	☼	03/06/12 07:26	03/06/12 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		50 - 116	03/06/12 07:26	03/06/12 22:57	1
DCB Decachlorobiphenyl	96		48 - 142	03/06/12 07:26	03/06/12 22:57	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:03	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 21:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 21:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 21:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:03	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:03	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 21:03	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:03	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:03	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:03	1
<b>Zinc</b>	<b>0.033</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 21:03	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 21:03	1
<b>Boron</b>	<b>1.0</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 21:03	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:03	1
<b>Cobalt</b>	<b>0.0060</b>	<b>J</b>	0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
<b>Arsenic</b>	<b>2.6</b>		0.49	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B07-2**

**Lab Sample ID: 500-44515-15**

Date Collected: 02/28/12 10:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.7

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	8.6		0.49	0.058	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Beryllium	0.32		0.20	0.014	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Cadmium	0.16		0.098	0.024	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Chromium	4.9		0.49	0.082	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Copper	10		0.49	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Lead	2.5	B	0.25	0.084	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Nickel	6.9		0.49	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Silver	<0.25		0.25	0.029	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Thallium	<0.49		0.49	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Zinc	18		0.98	0.34	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Sodium	210		49	9.0	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Potassium	420		25	2.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Calcium	82000	B E	9.8	1.7	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Iron	6300		9.8	4.2	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Vanadium	9.7		0.25	0.037	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Magnesium	42000	B	4.9	0.95	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Boron	4.6		2.5	0.46	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Manganese	220		0.49	0.069	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1
Cobalt	2.7		0.25	0.026	mg/Kg	☼	03/06/12 16:22	03/08/12 06:51	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:32	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:32	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015	0.0047	mg/Kg	☼	03/06/12 08:30	03/06/12 12:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.94		0.200	0.200	SU			03/08/12 14:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1**

**Lab Sample ID: 500-44515-16**

Date Collected: 02/28/12 11:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0026	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Benzene	<0.0052		0.0052	0.00056	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Bromodichloromethane	<0.0052		0.0052	0.00079	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Bromoform	<0.0052	*	0.0052	0.00085	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Bromomethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
2-Butanone (MEK)	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Carbon disulfide	<0.0052		0.0052	0.00074	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Carbon tetrachloride	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Chlorobenzene	<0.0052		0.0052	0.00083	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Chloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Chloroform	<0.0052		0.0052	0.00096	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Chloromethane	<0.0052		0.0052	0.00086	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00076	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00060	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Dibromochloromethane	<0.0052		0.0052	0.00072	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,2-Dichloroethane	<0.0052		0.0052	0.00053	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,1-Dichloroethene	<0.0052		0.0052	0.00083	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,2-Dichloropropane	<0.0052		0.0052	0.0012	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00060	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Ethylbenzene	<0.0052		0.0052	0.00078	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
2-Hexanone	<0.0052		0.0052	0.00074	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Methylene Chloride	<0.0052		0.0052	0.0015	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.00089	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00078	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Styrene	<0.0052		0.0052	0.00066	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Tetrachloroethene	<0.0052		0.0052	0.00099	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Toluene	<0.0052		0.0052	0.0010	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.0012	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Vinyl chloride	<0.0052		0.0052	0.00073	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1
Xylenes, Total	<0.010		0.010	0.00073	mg/Kg	☼	02/28/12 11:00	03/06/12 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		76 - 120	02/28/12 11:00	03/06/12 12:42	1
Dibromofluoromethane	97		73 - 122	02/28/12 11:00	03/06/12 12:42	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	02/28/12 11:00	03/06/12 12:42	1
Toluene-d8 (Surr)	110		72 - 122	02/28/12 11:00	03/06/12 12:42	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Acenaphthylene	<0.031		0.031	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1**

**Lab Sample ID: 500-44515-16**

**Date Collected: 02/28/12 11:00**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.5**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
4-Chloro-3-methylphenol	<0.34		0.34	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0097	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Dibenzofuran	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,4-Dichlorophenol	<0.34		0.34	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.084	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,4-Dinitrophenol	<0.70 *		0.70	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Fluorene	<0.034		0.034	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Naphthalene	<0.034		0.034	0.0067	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
3-Nitroaniline	<0.34		0.34	0.067	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
4-Nitroaniline	<0.34		0.34	0.071	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1**

**Lab Sample ID: 500-44515-16**

**Date Collected: 02/28/12 11:00**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.5**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Phenol	<0.17		0.17	0.055	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,4,5-Trichlorophenol	<0.34		0.34	0.099	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		30 - 119	03/12/12 18:17	03/13/12 20:36	1
2-Fluorophenol	83		30 - 110	03/12/12 18:17	03/13/12 20:36	1
Nitrobenzene-d5	78		30 - 115	03/12/12 18:17	03/13/12 20:36	1
Phenol-d5	74		31 - 110	03/12/12 18:17	03/13/12 20:36	1
Terphenyl-d14	91		36 - 134	03/12/12 18:17	03/13/12 20:36	1
2,4,6-Tribromophenol	78		35 - 137	03/12/12 18:17	03/13/12 20:36	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:43	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 21:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 21:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 21:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:43	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 21:43	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:43	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:43	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:43	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 21:43	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 21:43	1
<b>Boron</b>	<b>1.2</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 21:43	1
<b>Manganese</b>	<b>0.96</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:43	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Arsenic</b>	<b>2.1</b>		0.52	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Barium</b>	<b>9.1</b>		0.52	0.062	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Beryllium</b>	<b>0.19</b>	<b>J</b>	0.21	0.015	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Cadmium</b>	<b>0.12</b>		0.10	0.026	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Chromium</b>	<b>3.1</b>		0.52	0.086	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Copper</b>	<b>7.8</b>		0.52	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Lead</b>	<b>2.3</b>	<b>B</b>	0.26	0.089	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Nickel</b>	<b>4.1</b>		0.52	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Zinc</b>	<b>15</b>		1.0	0.35	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Sodium</b>	<b>160</b>		52	9.5	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Potassium</b>	<b>350</b>		26	2.9	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
<b>Calcium</b>	<b>82000</b>	<b>B E</b>	10	1.8	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1**

**Lab Sample ID: 500-44515-16**

Date Collected: 02/28/12 11:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5200		10	4.5	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Vanadium	8.9		0.26	0.039	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Magnesium	43000	B	5.2	1.0	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Boron	3.1		2.6	0.48	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Manganese	230		0.52	0.073	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1
Cobalt	1.9		0.26	0.027	mg/Kg	☼	03/06/12 16:22	03/08/12 06:57	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:38	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:33	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0048	mg/Kg	☼	03/06/12 08:30	03/06/12 12:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU			03/08/12 14:13	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1 DUP**

**Lab Sample ID: 500-44515-17**

**Date Collected: 02/28/12 11:05**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0025	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Benzene	<0.0051		0.0051	0.00055	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Bromodichloromethane	<0.0051		0.0051	0.00077	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Bromoform	<0.0051	*	0.0051	0.00082	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Bromomethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
2-Butanone (MEK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Carbon disulfide	<0.0051		0.0051	0.00072	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Chlorobenzene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Chloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Chloroform	<0.0051		0.0051	0.00094	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Chloromethane	<0.0051		0.0051	0.00083	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00074	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00058	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Dibromochloromethane	<0.0051		0.0051	0.00070	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,2-Dichloroethane	<0.0051		0.0051	0.00052	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,1-Dichloroethene	<0.0051		0.0051	0.00080	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,2-Dichloropropane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00058	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Ethylbenzene	<0.0051		0.0051	0.00076	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
2-Hexanone	<0.0051		0.0051	0.00072	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.00087	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00076	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Styrene	<0.0051		0.0051	0.00064	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Tetrachloroethene	<0.0051		0.0051	0.00097	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Toluene	<0.0051		0.0051	0.00099	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00072	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00098	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00068	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Trichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Vinyl chloride	<0.0051		0.0051	0.00071	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1
Xylenes, Total	<0.010		0.010	0.00071	mg/Kg	☼	02/28/12 11:05	03/07/12 10:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		76 - 120	02/28/12 11:05	03/07/12 10:22	1
Dibromofluoromethane	97		73 - 122	02/28/12 11:05	03/07/12 10:22	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/28/12 11:05	03/07/12 10:22	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 11:05	03/07/12 10:22	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0099	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Acenaphthylene	<0.030		0.030	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Anthracene</b>	<b>0.023</b>	<b>J</b>	0.033	0.0078	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Benzo[a]anthracene</b>	<b>0.028</b>	<b>J</b>	0.033	0.0069	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Benzo[a]pyrene</b>	<b>0.017</b>	<b>J</b>	0.033	0.0060	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.018</b>	<b>J</b>	0.033	0.0064	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1 DUP**

**Lab Sample ID: 500-44515-17**

Date Collected: 02/28/12 11:05

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.4

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Benzo[k]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.033	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2-Chlorophenol	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Chrysene</b>	<b>0.022</b>	<b>J</b>	0.033	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Diethyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Dimethyl phthalate	<0.17		0.17	0.041	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.080	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,4-Dinitrophenol	<0.67	*	0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,6-Dinitrotoluene	<0.17		0.17	0.039	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Di-n-octyl phthalate	<0.17		0.17	0.067	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Fluoranthene</b>	<b>0.11</b>		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Fluorene</b>	<b>0.032</b>	<b>J</b>	0.033	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Hexachlorobenzene	<0.067		0.067	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Hexachlorobutadiene	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Hexachloroethane	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1 DUP**

**Lab Sample ID: 500-44515-17**

Date Collected: 02/28/12 11:05

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.4

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Phenanthrene</b>	<b>0.18</b>		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
Phenol	<0.17		0.17	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
<b>Pyrene</b>	<b>0.072</b>		0.033	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		30 - 119	03/12/12 18:17	03/13/12 20:57	1
2-Fluorophenol	89		30 - 110	03/12/12 18:17	03/13/12 20:57	1
Nitrobenzene-d5	82		30 - 115	03/12/12 18:17	03/13/12 20:57	1
Phenol-d5	80		31 - 110	03/12/12 18:17	03/13/12 20:57	1
Terphenyl-d14	84		36 - 134	03/12/12 18:17	03/13/12 20:57	1
2,4,6-Tribromophenol	91		35 - 137	03/12/12 18:17	03/13/12 20:57	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:49	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 21:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 21:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 21:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:49	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:49	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 21:49	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:49	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:49	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:49	1
<b>Zinc</b>	<b>0.035</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 21:49	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 21:49	1
<b>Boron</b>	<b>1.0</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 21:49	1
<b>Manganese</b>	<b>0.91</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:49	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:49	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Arsenic</b>	<b>1.9</b>		0.49	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Barium</b>	<b>7.7</b>		0.49	0.058	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Beryllium</b>	<b>0.21</b>		0.20	0.014	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Cadmium</b>	<b>0.11</b>		0.098	0.024	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Chromium</b>	<b>3.8</b>		0.49	0.081	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Copper</b>	<b>8.2</b>		0.49	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Lead</b>	<b>2.7</b>	<b>B</b>	0.24	0.084	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Nickel</b>	<b>4.0</b>		0.49	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Selenium	<0.49		0.49	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Thallium	<0.49		0.49	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Zinc</b>	<b>14</b>		0.98	0.33	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Sodium</b>	<b>140</b>		49	8.9	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Potassium</b>	<b>310</b>		24	2.8	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
<b>Calcium</b>	<b>77000</b>	<b>B E</b>	9.8	1.7	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-1 DUP**

**Lab Sample ID: 500-44515-17**

Date Collected: 02/28/12 11:05

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.4

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5000		9.8	4.2	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Vanadium	9.8		0.24	0.037	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Magnesium	38000	B	4.9	0.95	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Boron	2.7		2.4	0.45	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Manganese	180		0.49	0.069	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1
Cobalt	1.8		0.24	0.026	mg/Kg	☼	03/06/12 16:22	03/08/12 07:04	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:39	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:35	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0059	J	0.017	0.0051	mg/Kg	☼	03/06/12 08:30	03/06/12 12:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			03/08/12 17:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-2**

**Lab Sample ID: 500-44515-18**

Date Collected: 02/28/12 11:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0074		0.0047	0.0023	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Benzene	<0.0047		0.0047	0.00050	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Carbon disulfide	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Chloroethane	<0.0047		0.0047	0.00098	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Chloromethane	<0.0047		0.0047	0.00076	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00068	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Dibromochloromethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00053	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
2-Hexanone	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00079	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Toluene	<0.0047		0.0047	0.00090	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Vinyl chloride	<0.0047		0.0047	0.00065	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1
Xylenes, Total	<0.0093		0.0093	0.00065	mg/Kg	☼	02/28/12 11:15	03/06/12 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	02/28/12 11:15	03/06/12 13:34	1
Dibromofluoromethane	95		73 - 122	02/28/12 11:15	03/06/12 13:34	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	02/28/12 11:15	03/06/12 13:34	1
Toluene-d8 (Surr)	111		72 - 122	02/28/12 11:15	03/06/12 13:34	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Acenaphthylene	<0.030		0.030	0.0077	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Anthracene	<0.033		0.033	0.0078	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-2**

**Lab Sample ID: 500-44515-18**

**Date Collected: 02/28/12 11:15**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.6**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Benzo[k]fluoranthene	<0.033		0.033	0.0079	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.049	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
4-Chloroaniline	<0.67		0.67	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Chrysene	<0.033		0.033	0.0075	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0093	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
1,2-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,4-Dimethylphenol	<0.33		0.33	0.10	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Di-n-butyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.081	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,4-Dinitrophenol	<0.67 *		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,4-Dinitrotoluene	<0.17		0.17	0.051	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Fluorene	<0.033		0.033	0.0076	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Hexachlorobenzene	<0.067		0.067	0.0066	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Hexachlorocyclopentadiene	<0.67		0.67	0.15	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Isophorone	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2-Methylnaphthalene	<0.17		0.17	0.043	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2-Methylphenol	<0.17		0.17	0.044	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
3 & 4 Methylphenol	<0.17		0.17	0.063	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Naphthalene	<0.033		0.033	0.0064	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2-Nitroaniline	<0.17		0.17	0.060	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
3-Nitroaniline	<0.33		0.33	0.064	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
4-Nitroaniline	<0.33		0.33	0.068	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2-Nitrophenol	<0.33		0.33	0.052	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
4-Nitrophenol	<0.67		0.67	0.18	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
N-Nitrosodiphenylamine	<0.17		0.17	0.045	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-2**

**Lab Sample ID: 500-44515-18**

Date Collected: 02/28/12 11:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.6

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.17	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Phenol	<0.17		0.17	0.053	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,4,5-Trichlorophenol	<0.33		0.33	0.095	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	03/12/12 18:17	03/13/12 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		30 - 119	03/12/12 18:17	03/13/12 21:19	1
2-Fluorophenol	80		30 - 110	03/12/12 18:17	03/13/12 21:19	1
Nitrobenzene-d5	75		30 - 115	03/12/12 18:17	03/13/12 21:19	1
Phenol-d5	73		31 - 110	03/12/12 18:17	03/13/12 21:19	1
Terphenyl-d14	80		36 - 134	03/12/12 18:17	03/13/12 21:19	1
2,4,6-Tribromophenol	86		35 - 137	03/12/12 18:17	03/13/12 21:19	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:55	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		03/07/12 16:00	03/08/12 21:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/07/12 16:00	03/08/12 21:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/07/12 16:00	03/08/12 21:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:55	1
Copper	<0.025		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/07/12 16:00	03/08/12 21:55	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:55	1
Selenium	<0.050		0.050	0.010	mg/L		03/07/12 16:00	03/08/12 21:55	1
Silver	<0.025		0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:55	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		03/07/12 16:00	03/08/12 21:55	1
Iron	<0.20		0.20	0.20	mg/L		03/07/12 16:00	03/08/12 21:55	1
<b>Boron</b>	<b>1.0</b>		0.10	0.050	mg/L		03/07/12 16:00	03/08/12 21:55	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/07/12 16:00	03/08/12 21:55	1
<b>Cobalt</b>	<b>0.0070</b>	<b>J</b>	0.025	0.0050	mg/L		03/07/12 16:00	03/08/12 21:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Arsenic</b>	<b>2.1</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Barium</b>	<b>7.9</b>		0.50	0.059	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Beryllium</b>	<b>0.22</b>		0.20	0.015	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Cadmium</b>	<b>0.10</b>		0.099	0.025	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Chromium</b>	<b>3.2</b>		0.50	0.083	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Copper</b>	<b>6.9</b>		0.50	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Lead</b>	<b>2.0</b>	<b>B</b>	0.25	0.086	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Nickel</b>	<b>4.0</b>		0.50	0.11	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Zinc</b>	<b>15</b>		0.99	0.34	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Sodium</b>	<b>140</b>		50	9.1	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Potassium</b>	<b>340</b>		25	2.8	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
<b>Calcium</b>	<b>66000</b>	<b>B E</b>	9.9	1.8	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
 SDG: 500-44515-1

**Client Sample ID: 915B-44-B08-2**

**Lab Sample ID: 500-44515-18**

Date Collected: 02/28/12 11:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.6

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4700		9.9	4.3	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Vanadium	7.5		0.25	0.038	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Magnesium	32000	B	5.0	0.96	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Boron	3.3		2.5	0.46	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Manganese	190		0.50	0.070	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1
Cobalt	1.7		0.25	0.026	mg/Kg	☼	03/06/12 16:22	03/08/12 07:10	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/07/12 16:00	03/08/12 13:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/07/12 16:00	03/08/12 13:40	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/07/12 11:50	03/08/12 10:37	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0054	J	0.015	0.0047	mg/Kg	☼	03/06/12 08:30	03/06/12 12:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			03/08/12 17:16	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44515-1  
SDG: 500-44515-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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.
E	Result exceeded calibration range.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than 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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>R2314</u> <b>Project No.:</b> <u>IDOT2011-052</u> TAT: <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> <u>1</u> of <u>5</u> <b>Lab Job No.:</b> <u>500-44515</u> <b>Sample Temp.:</b> <u>(36) (3.1)</u>
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**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Date/Time		
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization	Comments
1	915B-44-001-1	2/28	8:15	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'	
2	915B-44-001-2	2/28	8:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'	
3	915B-44-002-1	2/28	9:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'	
4	915B-44-002-2	2/28	9:15	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'	
5	915B-44-003-1	2/28	9:20	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'	
6	915B-44-003-DWP	2/28	9:25	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'	
7	915B-44-003-2	2/28	9:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'	
8	915B-44-004-1	2/28	9:50	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'	
9	915B-44-004-2	2/28	10:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'	
10	915B-44-005-1	2/28	10:10	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'	
11	915B-44-005-2	2/28	10:20	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'	
12	915B-44-006-1	2/28	10:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'	
Relinquished by: <u>[Signature]</u>					Date/Time	2/28/10										Date/Time	2/28/10
Relinquished by: <u>[Signature]</u>					Date/Time	2/29/10										Date/Time	2/29/10
Relinquished by: <u>[Signature]</u>					Date/Time	2/29/10										Date/Time	2/29/10



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>PTE 14</u> <b>Project No.:</b> <u>IDOT2011-032</u> <b>TAT:</b> <input checked="" type="checkbox"/> 10 BD <input type="checkbox"/> 15 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>COC No.:</b> <u>2</u> of <u>5</u> <b>Lab Job No.:</b> <u>500-44515</u> <b>Sample Temp:</b>
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**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Date/Time	Comments	
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids			Waste Characterization
13	915B-44-808-2	2/28	10:35	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'
14	915B-44-807-1	2/28	10:40	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
15	915B-44-807-2	2/28	10:50	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'
16	915B-44-808-1	2/28	11:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
17	915B-44-808/DUP	2/28	11:05	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
18	915B-44-808-2	2/28	11:15	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'
19	915B-44-809-1	2/28	11:20	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
20	915B-44-809-2	2/28	11:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'
	915B-44-80-1	2/28	11:45	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
	915B-44-80-2	2/28	12:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'
	915B-44-81-1	2/28	12:20	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
	915B-44-81-2	2/28	12:40	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'
Relinquished by: <u>[Signature]</u>				Date/Time: <u>2/28/13</u>	Received by: <u>[Signature]</u>										Date/Time: <u>2/28/13</u>	Comments: <u>TA</u>	
Relinquished by: <u>[Signature]</u>				Date/Time: <u>2/29/13</u>	Received by: <u>[Signature]</u>										Date/Time: <u>2/29/13</u>	Comments: <u>TA</u>	
Relinquished by: <u>[Signature]</u>				Date/Time: <u>2/29/13</u>	Received by: <u>[Signature]</u>										Date/Time: <u>2/29/13</u>	Comments: <u>TA</u>	





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## 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

1620 West Lake Shore Drive

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.29017 Longitude: -88.41625

(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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.29017 Longitude: -88.41625

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)]:

LOCATIONS 915B-46-B02 THROUGH -B04 AND -B06 WERE SAMPLED ADJACENT TO ISGS SITE NO. 915B-46. SEE FIGURE 2 AND TABLE 5aj OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44516-1

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Steven Gobelman, P.E., L.P.G. (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: IDOT Bureau of Design and Environment


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

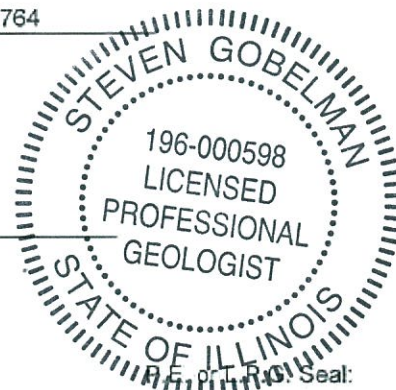
Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

2/2/14

Date:



Seal:

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-46  
Culvers**

Sample ID	915B-46-B02-1	915B-46-B02-2	915B-46-B03-1	915B-46-B03-2	915B-46-B04-1	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	4-8	0-4	4-8	0-4						
Sample Date	2/28/2012	2/28/2012	2/28/2012	2/28/2012	2/28/2012						
PID	0	0	0	0	0						
Sample pH	7.87	8.63	8.57	7.68	8.62						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>											

Sample ID	915B-46-B04-1 DUP	915B-46-B04-2	915B-46-B06-1	915B-46-B06-2	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non-Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-4	4-8	0-4	4-8						
Sample Date	2/28/2012	2/28/2012	2/28/2012	2/28/2012						
PID	0	0	0	0						
Sample pH	8.84	8.2	8.4	8.3						
Matrix	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>										

# 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: 500-44516-1  
TestAmerica Sample Delivery Group: 500-44516-1  
Client Project/Site: IDOT - US 14 - WO 032  
Revision: 1

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:  
9/21/2012 1:56:44 PM

Jodie Bracken  
Data Delivery Analyst  
[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for  
Richard Wright  
Project Manager II  
[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  
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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B02-1**

**Lab Sample ID: 500-44516-10**

Date Collected: 02/28/12 14:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 80.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0046		0.0046	0.00050	mg/Kg	☼	02/28/12 14:15	03/07/12 11:40	1
Ethylbenzene	<0.0046		0.0046	0.00069	mg/Kg	☼	02/28/12 14:15	03/07/12 11:40	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00069	mg/Kg	☼	02/28/12 14:15	03/07/12 11:40	1
Toluene	<0.0046		0.0046	0.00089	mg/Kg	☼	02/28/12 14:15	03/07/12 11:40	1
Xylenes, Total	<0.0092		0.0092	0.00064	mg/Kg	☼	02/28/12 14:15	03/07/12 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 14:15	03/07/12 11:40	1
Dibromofluoromethane	95		73 - 122	02/28/12 14:15	03/07/12 11:40	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	02/28/12 14:15	03/07/12 11:40	1
Toluene-d8 (Surr)	110		72 - 122	02/28/12 14:15	03/07/12 11:40	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Acenaphthylene	<0.036		0.036	0.0091	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		30 - 119	03/02/12 07:14	03/08/12 19:15	1
Nitrobenzene-d5	75		30 - 115	03/02/12 07:14	03/08/12 19:15	1
Terphenyl-d14	86		36 - 134	03/02/12 07:14	03/08/12 19:15	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:17	1
Barium	0.49	J	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 02:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 02:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 02:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:17	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 02:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:17	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:17	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:17	1
Zinc	0.020	J ^	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 02:17	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 02:17	1
Boron	0.83		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 02:17	1
Manganese	0.068		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B02-1**

**Lab Sample ID: 500-44516-10**

Date Collected: 02/28/12 14:15

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:17	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Arsenic	6.2		0.62	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Barium	56		0.62	0.074	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Beryllium	0.74		0.25	0.018	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Cadmium	0.086	J	0.12	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Chromium	18		0.62	0.10	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Copper	13	B	0.62	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Lead	8.1		0.31	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Nickel	19		0.62	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Selenium	<0.62	*	0.62	0.18	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Thallium	0.26	J	0.62	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Zinc	40		1.2	0.42	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Sodium	54	J	62	11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Potassium	990		31	3.5	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Calcium	4200	B	12	2.2	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Iron	18000	B	12	5.4	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Vanadium	29		0.31	0.047	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Magnesium	3900	B	6.2	1.2	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Boron	2.7	J	3.1	0.58	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Manganese	400		0.62	0.087	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1
Cobalt	6.0		0.31	0.032	mg/Kg	☼	03/06/12 16:35	03/09/12 06:44	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:09	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:01	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0057	mg/Kg	☼	03/06/12 13:20	03/07/12 10:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			03/08/12 18:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B02-2**

**Lab Sample ID: 500-44516-11**

Date Collected: 02/28/12 14:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 93.7

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/28/12 14:20	03/07/12 12:07	1
Ethylbenzene	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 14:20	03/07/12 12:07	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 14:20	03/07/12 12:07	1
Toluene	<0.0047		0.0047	0.00092	mg/Kg	☼	02/28/12 14:20	03/07/12 12:07	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/28/12 14:20	03/07/12 12:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	99		76 - 120				02/28/12 14:20	03/07/12 12:07	1
Dibromofluoromethane	95		73 - 122				02/28/12 14:20	03/07/12 12:07	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123				02/28/12 14:20	03/07/12 12:07	1
Toluene-d8 (Surr)	109		72 - 122				02/28/12 14:20	03/07/12 12:07	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Acenaphthylene	<0.032		0.032	0.0081	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0098	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 19:36	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	78		30 - 119				03/02/12 07:14	03/08/12 19:36	1
Nitrobenzene-d5	79		30 - 115				03/02/12 07:14	03/08/12 19:36	1
Terphenyl-d14	103		36 - 134				03/02/12 07:14	03/08/12 19:36	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:23	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 02:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 02:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 02:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:23	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:23	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 02:23	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:23	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:23	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:23	1
<b>Zinc</b>	<b>0.029</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 02:23	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 02:23	1
<b>Boron</b>	<b>1.0</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 02:23	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B02-2**

**Lab Sample ID: 500-44516-11**

Date Collected: 02/28/12 14:20

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0062	J	0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:23	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Arsenic	4.1		0.52	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Barium	9.3		0.52	0.061	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Beryllium	0.28		0.21	0.015	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Cadmium	0.18		0.10	0.026	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Chromium	4.2		0.52	0.086	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Copper	11	B	0.52	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Lead	3.6		0.26	0.089	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Nickel	5.7		0.52	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Selenium	<0.52	*	0.52	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Zinc	24		1.0	0.35	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Sodium	200		52	9.5	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Potassium	460		26	2.9	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Calcium	92000	B E	10	1.8	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Iron	7500	B	10	4.5	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Vanadium	11		0.26	0.039	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Magnesium	47000	B	5.2	1.0	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Boron	4.6		2.6	0.48	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Manganese	410		0.52	0.073	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1
Cobalt	2.5		0.26	0.027	mg/Kg	☼	03/06/12 16:35	03/09/12 06:51	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:10	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:03	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0053	mg/Kg	☼	03/06/12 13:20	03/07/12 10:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.200	0.200	SU			03/08/12 16:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B03-1**

**Lab Sample ID: 500-44516-12**

Date Collected: 02/28/12 14:30

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 75.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0067		0.0067	0.00072	mg/Kg	☼	02/28/12 14:30	03/07/12 12:33	1
Ethylbenzene	<0.0067		0.0067	0.0010	mg/Kg	☼	02/28/12 14:30	03/07/12 12:33	1
Methyl tert-butyl ether	<0.0067		0.0067	0.0010	mg/Kg	☼	02/28/12 14:30	03/07/12 12:33	1
Toluene	<0.0067		0.0067	0.0013	mg/Kg	☼	02/28/12 14:30	03/07/12 12:33	1
Xylenes, Total	<0.013		0.013	0.00093	mg/Kg	☼	02/28/12 14:30	03/07/12 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 14:30	03/07/12 12:33	1
Dibromofluoromethane	91		73 - 122	02/28/12 14:30	03/07/12 12:33	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	02/28/12 14:30	03/07/12 12:33	1
Toluene-d8 (Surr)	108		72 - 122	02/28/12 14:30	03/07/12 12:33	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Acenaphthylene	<0.039		0.039	0.0098	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Anthracene	<0.042		0.042	0.010	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
<b>Benzo[a]anthracene</b>	<b>0.0094</b>	<b>J</b>	0.042	0.0089	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
<b>Benzo[a]pyrene</b>	<b>0.017</b>	<b>J</b>	0.042	0.0078	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.042	0.0083	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.042	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.042	0.0096	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Fluorene	<0.042		0.042	0.0097	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.014</b>	<b>J</b>	0.042	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Naphthalene	<0.042		0.042	0.0082	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1
<b>Pyrene</b>	<b>0.016</b>	<b>J</b>	0.042	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		30 - 119	03/02/12 07:14	03/08/12 19:57	1
Nitrobenzene-d5	56		30 - 115	03/02/12 07:14	03/08/12 19:57	1
Terphenyl-d14	70		36 - 134	03/02/12 07:14	03/08/12 19:57	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:29	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 02:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 02:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 02:29	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:29	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 02:29	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:29	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:29	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:29	1
<b>Zinc</b>	<b>0.14</b>	<b>^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 02:29	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 02:29	1
<b>Boron</b>	<b>1.3</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 02:29	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:29	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B03-1**

**Lab Sample ID: 500-44516-12**

Date Collected: 02/28/12 14:30

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:29	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Arsenic	3.9		0.63	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Barium	66		0.63	0.075	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Beryllium	0.59		0.25	0.018	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Cadmium	0.32		0.13	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Chromium	10		0.63	0.10	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Copper	13	B	0.63	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Lead	19		0.31	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Nickel	7.7		0.63	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Selenium	<0.63	*	0.63	0.18	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Silver	<0.31		0.31	0.038	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Thallium	<0.63		0.63	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Zinc	43		1.3	0.43	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Sodium	340		63	11	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Potassium	1100		31	3.6	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Calcium	140000	B E	13	2.2	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Iron	8900	B	13	5.4	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Vanadium	16		0.31	0.048	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Magnesium	46000	B	6.3	1.2	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Boron	10		3.1	0.59	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Manganese	400		0.63	0.089	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1
Cobalt	2.9		0.31	0.033	mg/Kg	☼	03/06/12 16:35	03/09/12 06:57	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:11	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:05	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0071	J	0.019	0.0059	mg/Kg	☼	03/06/12 13:20	03/07/12 11:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU			03/08/12 16:43	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B03-2**

**Lab Sample ID: 500-44516-13**

Date Collected: 02/28/12 14:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050	0.00054	mg/Kg	☼	02/28/12 14:40	03/07/12 12:58	1
Ethylbenzene	<0.0050		0.0050	0.00075	mg/Kg	☼	02/28/12 14:40	03/07/12 12:58	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00075	mg/Kg	☼	02/28/12 14:40	03/07/12 12:58	1
Toluene	<0.0050		0.0050	0.00097	mg/Kg	☼	02/28/12 14:40	03/07/12 12:58	1
Xylenes, Total	<0.010		0.010	0.00070	mg/Kg	☼	02/28/12 14:40	03/07/12 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	02/28/12 14:40	03/07/12 12:58	1
Dibromofluoromethane	95		73 - 122	02/28/12 14:40	03/07/12 12:58	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/28/12 14:40	03/07/12 12:58	1
Toluene-d8 (Surr)	107		72 - 122	02/28/12 14:40	03/07/12 12:58	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Acenaphthylene	<0.034		0.034	0.0088	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		30 - 119	03/02/12 07:14	03/08/12 20:19	1
Nitrobenzene-d5	84		30 - 115	03/02/12 07:14	03/08/12 20:19	1
Terphenyl-d14	104		36 - 134	03/02/12 07:14	03/08/12 20:19	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:35	1
Barium	0.36	J	0.50	0.010	mg/L		03/08/12 16:00	03/10/12 02:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 02:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 02:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:35	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 02:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:35	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:35	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:35	1
Zinc	0.024	J ^	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 02:35	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 02:35	1
Boron	1.1		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 02:35	1
Manganese	0.016	J	0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B03-2**

**Lab Sample ID: 500-44516-13**

Date Collected: 02/28/12 14:40

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:35	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Arsenic	8.2		0.58	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Barium	86		0.58	0.069	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Beryllium	0.71		0.23	0.017	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Chromium	21		0.58	0.096	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Copper	20	B	0.58	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Lead	11		0.29	0.099	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Nickel	19		0.58	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Selenium	0.37	J *	0.58	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Thallium	0.24	J	0.58	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Zinc	47		1.2	0.40	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Sodium	56	J	58	11	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Potassium	1700		29	3.3	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Calcium	3400	B	12	2.0	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Iron	22000	B	12	5.0	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Vanadium	31		0.29	0.044	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Magnesium	2900	B	5.8	1.1	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Boron	2.6	J	2.9	0.54	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Manganese	440		0.58	0.081	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1
Cobalt	6.9		0.29	0.030	mg/Kg	☼	03/06/12 16:35	03/09/12 07:03	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:12	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:07	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.019	0.0058	mg/Kg	☼	03/06/12 13:20	03/07/12 11:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.68		0.200	0.200	SU			03/08/12 16:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B04-1**

**Lab Sample ID: 500-44516-14**

Date Collected: 02/28/12 14:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 86.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0043		0.0043	0.00046	mg/Kg	☼	02/28/12 14:50	03/07/12 13:24	1
Ethylbenzene	<0.0043		0.0043	0.00064	mg/Kg	☼	02/28/12 14:50	03/07/12 13:24	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00064	mg/Kg	☼	02/28/12 14:50	03/07/12 13:24	1
Toluene	<0.0043		0.0043	0.00083	mg/Kg	☼	02/28/12 14:50	03/07/12 13:24	1
Xylenes, Total	<0.0086		0.0086	0.00060	mg/Kg	☼	02/28/12 14:50	03/07/12 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120				02/28/12 14:50	03/07/12 13:24	1
Dibromofluoromethane	95		73 - 122				02/28/12 14:50	03/07/12 13:24	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123				02/28/12 14:50	03/07/12 13:24	1
Toluene-d8 (Surr)	107		72 - 122				02/28/12 14:50	03/07/12 13:24	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Acenaphthylene	<0.033		0.033	0.0084	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Anthracene	<0.037		0.037	0.0086	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
<b>Benzo[a]pyrene</b>	<b>0.0079</b>	<b>J</b>	0.037	0.0067	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
<b>Benzo[b]fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.037	0.0071	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
<b>Benzo[g,h,i]perylene</b>	<b>0.013</b>	<b>J</b>	0.037	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		30 - 119				03/02/12 07:14	03/08/12 20:40	1
Nitrobenzene-d5	60		30 - 115				03/02/12 07:14	03/08/12 20:40	1
Terphenyl-d14	72		36 - 134				03/02/12 07:14	03/08/12 20:40	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:41	1
<b>Barium</b>	<b>0.66</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 02:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 02:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 02:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:41	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:41	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 02:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:41	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:41	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:41	1
<b>Zinc</b>	<b>0.036</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 02:41	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 02:41	1
<b>Boron</b>	<b>1.2</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 02:41	1
<b>Manganese</b>	<b>0.30</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B04-1**

**Lab Sample ID: 500-44516-14**

Date Collected: 02/28/12 14:50

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:41	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Arsenic</b>	<b>5.6</b>		0.56	0.12	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Barium</b>	<b>65</b>		0.56	0.066	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Beryllium</b>	<b>0.66</b>		0.22	0.016	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Cadmium</b>	<b>0.24</b>		0.11	0.028	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Chromium</b>	<b>14</b>		0.56	0.093	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Copper</b>	<b>13 B</b>		0.56	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Lead</b>	<b>47</b>		0.28	0.096	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Nickel</b>	<b>12</b>		0.56	0.12	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
Selenium	<0.56 *		0.56	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Zinc</b>	<b>37</b>		1.1	0.38	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Sodium</b>	<b>190</b>		56	10	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Potassium</b>	<b>1100</b>		28	3.2	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Calcium</b>	<b>44000 B</b>		11	2.0	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Iron</b>	<b>12000 B</b>		11	4.8	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Vanadium</b>	<b>20</b>		0.28	0.042	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Magnesium</b>	<b>18000 B</b>		5.6	1.1	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Boron</b>	<b>4.7</b>		2.8	0.52	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Manganese</b>	<b>450</b>		0.56	0.079	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1
<b>Cobalt</b>	<b>4.0</b>		0.28	0.029	mg/Kg	☼	03/06/12 16:35	03/09/12 07:09	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:13	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:08	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0062</b>	<b>J</b>	0.018	0.0054	mg/Kg	☼	03/06/12 13:20	03/07/12 11:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.62</b>		0.200	0.200	SU			03/08/12 16:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B04-1 DUP**

**Lab Sample ID: 500-44516-15**

Date Collected: 02/28/12 14:55

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 90.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0042		0.0042	0.00046	mg/Kg	☼	02/28/12 14:55	03/07/12 13:50	1
Ethylbenzene	<0.0042		0.0042	0.00063	mg/Kg	☼	02/28/12 14:55	03/07/12 13:50	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00063	mg/Kg	☼	02/28/12 14:55	03/07/12 13:50	1
Toluene	<0.0042		0.0042	0.00082	mg/Kg	☼	02/28/12 14:55	03/07/12 13:50	1
Xylenes, Total	<0.0085		0.0085	0.00059	mg/Kg	☼	02/28/12 14:55	03/07/12 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120				02/28/12 14:55	03/07/12 13:50	1
Dibromofluoromethane	95		73 - 122				02/28/12 14:55	03/07/12 13:50	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123				02/28/12 14:55	03/07/12 13:50	1
Toluene-d8 (Surr)	108		72 - 122				02/28/12 14:55	03/07/12 13:50	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Acenaphthylene	<0.032		0.032	0.0082	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
<b>Benzo[a]pyrene</b>	<b>0.010</b>	<b>J</b>	0.035	0.0065	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
<b>Benzo[b]fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.035	0.0069	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.035	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
<b>Chrysene</b>	<b>0.0095</b>	<b>J</b>	0.035	0.0080	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.012</b>	<b>J</b>	0.035	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.035	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		30 - 119				03/02/12 07:14	03/08/12 21:02	1
Nitrobenzene-d5	67		30 - 115				03/02/12 07:14	03/08/12 21:02	1
Terphenyl-d14	84		36 - 134				03/02/12 07:14	03/08/12 21:02	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:48	1
<b>Barium</b>	<b>0.58</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 02:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 02:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 02:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:48	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 02:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:48	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:48	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:48	1
<b>Zinc</b>	<b>0.033</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 02:48	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 02:48	1
<b>Boron</b>	<b>1.1</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 02:48	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B04-1 DUP**

**Lab Sample ID: 500-44516-15**

Date Collected: 02/28/12 14:55

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Arsenic	5.5		0.54	0.12	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Barium	68		0.54	0.064	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Beryllium	0.69		0.22	0.016	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Cadmium	0.25		0.11	0.027	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Chromium	15		0.54	0.090	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Copper	15	B	0.54	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Lead	44		0.27	0.093	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Nickel	12		0.54	0.12	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Selenium	<0.54	*	0.54	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Zinc	40		1.1	0.37	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Sodium	190		54	9.9	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Potassium	1000		27	3.1	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Calcium	41000	B	11	1.9	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Iron	13000	B	11	4.7	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Vanadium	23		0.27	0.041	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Magnesium	17000	B	5.4	1.0	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Boron	4.9		2.7	0.50	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Manganese	490		0.54	0.076	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1
Cobalt	4.9		0.27	0.028	mg/Kg	☼	03/06/12 16:35	03/09/12 07:15	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:15	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:10	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0050	mg/Kg	☼	03/06/12 13:20	03/07/12 11:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.84		0.200	0.200	SU			03/08/12 16:59	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B04-2**

**Lab Sample ID: 500-44516-16**

Date Collected: 02/28/12 15:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 79.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0049		0.0049	0.00052	mg/Kg	☼	02/28/12 15:00	03/07/12 14:17	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/28/12 15:00	03/07/12 14:17	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/28/12 15:00	03/07/12 14:17	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/28/12 15:00	03/07/12 14:17	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/28/12 15:00	03/07/12 14:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		76 - 120				02/28/12 15:00	03/07/12 14:17	1
Dibromofluoromethane	99		73 - 122				02/28/12 15:00	03/07/12 14:17	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123				02/28/12 15:00	03/07/12 14:17	1
Toluene-d8 (Surr)	107		72 - 122				02/28/12 15:00	03/07/12 14:17	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Acenaphthylene	<0.037		0.037	0.0094	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Benzo[a]pyrene	<0.041		0.041	0.0075	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Benzo[b]fluoranthene	<0.041		0.041	0.0080	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Benzo[k]fluoranthene	<0.041		0.041	0.0098	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Chrysene	<0.041		0.041	0.0093	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 21:23	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	79		30 - 119				03/02/12 07:14	03/08/12 21:23	1
Nitrobenzene-d5	80		30 - 115				03/02/12 07:14	03/08/12 21:23	1
Terphenyl-d14	96		36 - 134				03/02/12 07:14	03/08/12 21:23	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:54	1
<b>Barium</b>	<b>0.90</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 02:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 02:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 02:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:54	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:54	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 02:54	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:54	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 02:54	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:54	1
<b>Zinc</b>	<b>0.031</b>	J ^	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 02:54	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 02:54	1
<b>Boron</b>	<b>1.3</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 02:54	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 02:54	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B04-2**

**Lab Sample ID: 500-44516-16**

Date Collected: 02/28/12 15:00

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 02:54	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Arsenic	5.3		0.58	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Barium	60		0.58	0.069	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Beryllium	0.65		0.23	0.017	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Cadmium	0.076	J	0.12	0.029	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Chromium	13		0.58	0.097	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Copper	11	B	0.58	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Lead	6.6		0.29	0.10	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Nickel	22		0.58	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Selenium	<0.58	*	0.58	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Thallium	0.22	J	0.58	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Zinc	28		1.2	0.40	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Sodium	140		58	11	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Potassium	720		29	3.3	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Calcium	6300	B	12	2.1	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Iron	13000	B	12	5.1	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Vanadium	21		0.29	0.044	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Magnesium	4200	B	5.8	1.1	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Boron	1.7	J	2.9	0.54	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Manganese	340		0.58	0.082	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1
Cobalt	4.0		0.29	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 07:22	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:16	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:12	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0058	mg/Kg	☼	03/06/12 13:20	03/07/12 11:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			03/08/12 17:05	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B06-1**

**Lab Sample ID: 500-44516-19**

Date Collected: 02/28/12 16:15

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 89.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0042		0.0042	0.00046	mg/Kg	☼	02/28/12 16:15	03/07/12 15:35	1
Ethylbenzene	<0.0042		0.0042	0.00063	mg/Kg	☼	02/28/12 16:15	03/07/12 15:35	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00063	mg/Kg	☼	02/28/12 16:15	03/07/12 15:35	1
Toluene	<0.0042		0.0042	0.00082	mg/Kg	☼	02/28/12 16:15	03/07/12 15:35	1
Xylenes, Total	<0.0085		0.0085	0.00059	mg/Kg	☼	02/28/12 16:15	03/07/12 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120				02/28/12 16:15	03/07/12 15:35	1
Dibromofluoromethane	95		73 - 122				02/28/12 16:15	03/07/12 15:35	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123				02/28/12 16:15	03/07/12 15:35	1
Toluene-d8 (Surr)	107		72 - 122				02/28/12 16:15	03/07/12 15:35	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Acenaphthylene	<0.032		0.032	0.0080	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
<b>Benzo[g,h,i]perylene</b>	<b>0.034</b>	<b>J</b>	0.035	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0098	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		30 - 119				03/02/12 07:14	03/08/12 22:28	1
Nitrobenzene-d5	86		30 - 115				03/02/12 07:14	03/08/12 22:28	1
Terphenyl-d14	109		36 - 134				03/02/12 07:14	03/08/12 22:28	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 03:27	1
<b>Barium</b>	<b>0.71</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 03:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 03:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 03:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:27	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:27	1
<b>Lead</b>	<b>0.0075</b>		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 03:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:27	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 03:27	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 03:27	1
<b>Zinc</b>	<b>0.033</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 03:27	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 03:27	1
<b>Boron</b>	<b>0.99</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 03:27	1
<b>Manganese</b>	<b>0.76</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:27	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B06-1**

**Lab Sample ID: 500-44516-19**

Date Collected: 02/28/12 16:15

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 03:27	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0050	mg/L		03/13/12 08:30	03/13/12 07:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Arsenic</b>	<b>5.6</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Barium</b>	<b>88</b>		0.51	0.060	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Beryllium</b>	<b>0.63</b>		0.20	0.015	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Cadmium</b>	<b>0.19</b>		0.10	0.025	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Chromium</b>	<b>14</b>		0.51	0.085	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Copper</b>	<b>16</b>	<b>B</b>	0.51	0.14	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Lead</b>	<b>31</b>		0.25	0.087	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Nickel</b>	<b>12</b>		0.51	0.11	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
Selenium	<0.51	*	0.51	0.15	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
Silver	<0.25		0.25	0.031	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Zinc</b>	<b>36</b>		1.0	0.35	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Sodium</b>	<b>100</b>		51	9.3	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Potassium</b>	<b>1000</b>		25	2.9	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Calcium</b>	<b>26000</b>	<b>B</b>	10	1.8	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Iron</b>	<b>14000</b>	<b>B</b>	10	4.4	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Vanadium</b>	<b>25</b>		0.25	0.039	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Magnesium</b>	<b>13000</b>	<b>B</b>	5.1	0.98	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Boron</b>	<b>3.6</b>		2.5	0.47	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Manganese</b>	<b>530</b>	<b>E</b>	0.51	0.072	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1
<b>Cobalt</b>	<b>5.9</b>		0.25	0.027	mg/Kg	☼	03/06/12 16:35	03/09/12 07:41	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:19	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:21	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>		0.018	0.0056	mg/Kg	☼	03/06/12 13:20	03/07/12 11:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.40</b>		0.200	0.200	SU			03/08/12 16:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B06-2**

**Lab Sample ID: 500-44516-20**

Date Collected: 02/28/12 16:20

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/28/12 16:20	03/07/12 16:01	1
Ethylbenzene	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 16:20	03/07/12 16:01	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 16:20	03/07/12 16:01	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/28/12 16:20	03/07/12 16:01	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/28/12 16:20	03/07/12 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120				02/28/12 16:20	03/07/12 16:01	1
Dibromofluoromethane	93		73 - 122				02/28/12 16:20	03/07/12 16:01	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123				02/28/12 16:20	03/07/12 16:01	1
Toluene-d8 (Surr)	108		72 - 122				02/28/12 16:20	03/07/12 16:01	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Acenaphthylene	<0.035		0.035	0.0089	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
<b>Benzo[a]anthracene</b>	<b>0.0082</b>	<b>J</b>	0.039	0.0081	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
<b>Benzo[a]pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0071	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
<b>Benzo[b]fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
<b>Benzo[k]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0093	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
<b>Chrysene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0088	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	03/02/12 07:14	03/08/12 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		30 - 119				03/02/12 07:14	03/08/12 22:49	1
Nitrobenzene-d5	53		30 - 115				03/02/12 07:14	03/08/12 22:49	1
Terphenyl-d14	78		36 - 134				03/02/12 07:14	03/08/12 22:49	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 03:33	1
<b>Barium</b>	<b>0.66</b>		0.50	0.010	mg/L		03/08/12 16:00	03/10/12 03:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 16:00	03/10/12 03:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 16:00	03/10/12 03:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:33	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 16:00	03/10/12 03:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:33	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 16:00	03/10/12 03:33	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 03:33	1
<b>Zinc</b>	<b>0.031</b>	<b>J ^</b>	0.10	0.020	mg/L		03/08/12 16:00	03/10/12 03:33	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 16:00	03/10/12 03:33	1
<b>Boron</b>	<b>0.95</b>		0.10	0.050	mg/L		03/08/12 16:00	03/10/12 03:33	1
<b>Manganese</b>	<b>0.40</b>		0.025	0.010	mg/L		03/08/12 16:00	03/10/12 03:33	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

**Client Sample ID: 915B-46-B06-2**

**Lab Sample ID: 500-44516-20**

Date Collected: 02/28/12 16:20

Matrix: Solid

Date Received: 02/29/12 11:10

**Method: 6010B - PPL+Ba Metals - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 16:00	03/10/12 03:33	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Arsenic	3.9		0.60	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Barium	58		0.60	0.072	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Beryllium	0.39		0.24	0.018	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Cadmium	0.20		0.12	0.030	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Chromium	7.1		0.60	0.10	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Copper	8.6	B	0.60	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Lead	9.0		0.30	0.10	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Nickel	6.5		0.60	0.13	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Selenium	<0.60	*	0.60	0.17	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Thallium	<0.60		0.60	0.16	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Zinc	22		1.2	0.41	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Sodium	190		60	11	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Potassium	880		30	3.4	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Calcium	92000	B E	12	2.1	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Iron	8900	B	12	5.2	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Vanadium	14		0.30	0.046	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Magnesium	54000	B	6.0	1.2	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Boron	6.9		3.0	0.56	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Manganese	520		0.60	0.085	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1
Cobalt	3.7		0.30	0.032	mg/Kg	☼	03/06/12 16:35	03/09/12 08:02	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 16:00	03/09/12 13:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 16:00	03/09/12 13:20	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 11:22	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.017	0.0053	mg/Kg	☼	03/06/12 13:20	03/07/12 11:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.30		0.200	0.200	SU			03/08/12 16:21	1



## Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44516-1  
SDG: 500-44516-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the 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.
E	Result exceeded calibration range.
*	LCS or LCSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than 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.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

COC No.: 2 of 5  
 Lab Job No.: 500-44516  
 Sample Temp: (3.4) (3.7)

Project Name: RAE 14  
 Project No.: IDOT2011-232  
 TAT:  5 BD  10 BD  5 HD  2 BD  Other

Laboratory  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

Client Contact  
 Andrews Engineering, Inc  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 217-787-2334  
 Contact: Colleen Gray  
 email: cgray@andrews-eng.com

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Matrix Key:  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OI - Oil  
 O - Other

Analyses  
 VOCs  SVOCs   
 BETX & MTBE  PNAS   
 Pesticides  PCBs   
 Total Metals  TCLP/SPLP Metals   
 PH  % Solids   
 Waste Characterization

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	PH	% Solids	Waste Characterization	Comments
	915B-44-806-2	2/28	10:35	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6-12
	915B-44-807-1	2/28	10:40	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-6
	915B-44-807-2	2/28	10:50	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6-12
	915B-44-808-1	2/28	11:00	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-6
	915B-44-808-1DU1	2/28	11:05	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-6
	915B-44-808-2	2/28	11:15	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6-12
	915B-44-809-1	2/28	11:20	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-6
	915B-44-809-2	2/28	11:30	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6-12
1	915B-44-810-1	2/28	11:45	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-6
2	915B-44-810-2	2/28	12:00	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6-12
3	915B-44-811-1	2/28	12:20	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-6
4	915B-44-811-2	2/28	12:40	S	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6-12

Relinquished by: [Signature] Date/Time: 2/28/12 17:10 Received by: [Signature] Date/Time: 2/29/12 13:00  
 Relinquished by: [Signature] Date/Time: 2/29/12 Received by: [Signature] Date/Time: 2/29/12 11:00  
 Relinquished by: [Signature] Date/Time: 2/29/12 Received by: [Signature] Date/Time: 2/29/12 11:00



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> RTE 14	<b>COC No.:</b> 3 of 5
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project No.: IDOT2011-032 TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	Lab Job No.: 500-44516 Sample Temp:
<b>Sampler:</b>			

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES											Comments
					VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	
5	915B-44-B12-1	2/28	1:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
6	915B-44-B12-2	2/28	1:20	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-12'
7	915B-44-B12-1NF	2/28	1:10	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-6'
8	915B-46-B01-1	2/28	1:50	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
9	915B-46-B01-2	2/28	1:55	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4-8'
10	915B-46-B02-1	2/28	2:15	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
11	915B-46-B02-2	2/28	2:20	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4-8'
12	915B-46-B03-1	2/28	2:30	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
13	915B-46-B03-2	2/28	2:40	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4-8'
14	915B-46-B04-1	2/28	2:50	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
15	915B-46-B04-1NF	2/28	2:55	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0-4'
16	915B-46-B04-2	2/28	3:00	S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4-8'

Relinquished by: <i>[Signature]</i>	Date/Time: 2/28/13 17:10	Received by: <i>[Signature]</i>	Date/Time: 2/29/13 13:0
Relinquished by: <i>[Signature]</i>	Date/Time: 2/29/13 11:10	Received by: <i>[Signature]</i>	Date/Time: 2/29/13 11:10
Relinquished by: <i>[Signature]</i>	Date/Time: 2/29/13 11:10	Received by: <i>[Signature]</i>	Date/Time: 2/29/13 11:10

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.



# CHAIN OF CUSTODY RECORD

**Client Contact**  
 Andrews Engineering, Inc.  
 3300 Ginger Creek Drive  
 Springfield, IL 62711  
 Contact: Colleen Grey  
 email: cgrey@andrews-eng.com

**Laboratory**  
 Lab: Test America - Chicago  
 Address: 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: richard.wright@testamericainc.com

**Project Name:** Met 14  
**Project No.:** IDOT2011-032  
**Sample Temp:**  15 BD  10 BD  5 BD  2 BD  Other

**COC No.:** 4 of 5  
**Lab Job No.:** 500-49516

**Special Instructions:**  
 See Table 1 for complete parameter lists and reporting limit requirements.  
 \*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
17	915B-46-B05-1	2/28	3:10	S		✓	✓			✓	✓	✓	✓		0-4'
18	915B-46-B05-2	2/28	3:15	S		✓	✓			✓	✓	✓	✓		4-8'
19	915B-46-B06-1	2/28	4:15	S		✓	✓			✓	✓	✓	✓		0-4'
20	915B-46-B06-2	2/28	4:20	S		✓	✓			✓	✓	✓	✓		4-8'
	915B-47-B01-1	2/28	4:30	S	✓					✓	✓	✓	✓		0-5'
	915B-47-B01-2	2/28	4:50	S	✓					✓	✓	✓	✓		5-10'
	915B-47-B01-3	2/28	5:00	S	✓					✓	✓	✓	✓		10-15'
	915B-47-B01-DWA	2/28	4:40	S	✓					✓	✓	✓	✓		0-5'
	915B-23-B01	2/28	5:15	S	✓					✓	✓	✓	✓		0-10'
Relinquished by:	<i>[Signature]</i>	Date/Time:	2/28/12	11:10											
Relinquished by:	<i>[Signature]</i>	Date/Time:	2/28/12	11:10											
Relinquished by:	<i>[Signature]</i>	Date/Time:	2/28/12	11:10											







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 305 (US 14) W. Lake Shore Dr. to Lucas Rd. Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

1525 West Lake Shore Drive

City: Woodstock State: IL Zip Code: 60098

County: McHenry Township: Dorr

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.29106 Longitude: -88.41773

(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: 1110955008 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: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 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 305 (US 14) W. Lake Shore Dr. to Lucas Rd.

Latitude: 42.29106 Longitude: -88.41773

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):

LOCATION 915B-47-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 915B-47. SEE FIGURE 2 AND TABLE 5ak OF THE REVISED PRELIMINARY SITE INVESTIGATION.

- 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-44517-1

**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

I, Steven Gobelman, P.E., L.P.G. (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))*

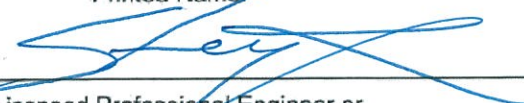
Company Name: IDOT Bureau of Design and Environment

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7/6/14  
 Date:



Seal:

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
<b>Semivolatile Organic Compounds (mg/kg)</b>
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Semivolatile Organic Compounds (mg/kg) (cont.)</b>
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
<b>Inorganic Compounds, Total (mg/kg)</b>
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
<b>TCLP/SPLP Inorganics (mg/L)</b>
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation “**No Contaminants of Concern Noted**” were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

**ISGS Site 915B-47  
Towels and More/Windhaven Printworks**

Sample ID	915B-47-B01-1	915B-47-B01-1 DUP	915B-47-B01-2	915B-47-B01-3	1 Most Stringent MAC	2 Outside a Populated Area MAC	3 Populated non- Metropolitan Statistical Area MAC	4 Within Chicago Corporate Limits MAC	5 Metropolitan Statistical Area MAC	6 Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-5	0-5	5-10	10-15						
Sample Date	2/28/2012	2/28/2012	2/28/2012	2/28/2012						
PID	0	0	0	0						
Sample pH	6.61	7.26	8.62	6.25						
Matrix	Soil	Soil	Soil	Soil						
<b>No Contaminants of Concern Noted.</b>										

# 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: 500-44517-1

TestAmerica Sample Delivery Group: 500-44517-1

Client Project/Site: IDOT - US 14 - WO 032

Revision: 1

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson

*Jodie Bracken*

Authorized for release by:

9/21/2012 2:05:21 PM

Jodie Bracken

Data Delivery Analyst

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

Richard Wright

Project Manager II

[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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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-1**

**Lab Sample ID: 500-44517-1**

Date Collected: 02/28/12 16:30

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0023	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Benzene	<0.0047		0.0047	0.00051	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Bromodichloromethane	<0.0047		0.0047	0.00071	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Bromoform	<0.0047	*	0.0047	0.00076	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Bromomethane	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
2-Butanone (MEK)	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Carbon disulfide	<0.0047		0.0047	0.00067	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Chlorobenzene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Chloroethane	<0.0047		0.0047	0.00099	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Chloroform	<0.0047		0.0047	0.00086	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Chloromethane	<0.0047		0.0047	0.00077	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00069	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00054	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Dibromochloromethane	<0.0047		0.0047	0.00065	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,2-Dichloroethane	<0.0047		0.0047	0.00048	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,1-Dichloroethene	<0.0047		0.0047	0.00074	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,2-Dichloropropane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00054	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Ethylbenzene	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
2-Hexanone	<0.0047		0.0047	0.00067	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00080	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00070	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Styrene	<0.0047		0.0047	0.00059	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Tetrachloroethene	<0.0047		0.0047	0.00089	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Toluene	<0.0047		0.0047	0.00091	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00090	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Trichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Vinyl chloride	<0.0047		0.0047	0.00066	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1
Xylenes, Total	<0.0094		0.0094	0.00066	mg/Kg	☼	02/28/12 16:30	03/07/12 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/28/12 16:30	03/07/12 16:27	1
Dibromofluoromethane	95		73 - 122	02/28/12 16:30	03/07/12 16:27	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/28/12 16:30	03/07/12 16:27	1
Toluene-d8 (Surr)	109		72 - 122	02/28/12 16:30	03/07/12 16:27	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Acenaphthylene	<0.034		0.034	0.0088	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-1**

**Lab Sample ID: 500-44517-1**

**Date Collected: 02/28/12 16:30**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 82.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1

# Client Sample Results

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Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

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**Lab Sample ID: 500-44517-1**

Date Collected: 02/28/12 16:30

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.9

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Phenol	<0.19		0.19	0.060	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	03/02/12 07:00	03/08/12 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		30 - 119	03/02/12 07:00	03/08/12 23:28	1
2-Fluorophenol	61		30 - 110	03/02/12 07:00	03/08/12 23:28	1
Nitrobenzene-d5	69		30 - 115	03/02/12 07:00	03/08/12 23:28	1
Phenol-d5	67		31 - 110	03/02/12 07:00	03/08/12 23:28	1
Terphenyl-d14	76		36 - 134	03/02/12 07:00	03/08/12 23:28	1
2,4,6-Tribromophenol	75		35 - 137	03/02/12 07:00	03/08/12 23:28	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:01	1
<b>Barium</b>	<b>0.82</b>		0.50	0.010	mg/L		03/08/12 08:00	03/08/12 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 08:00	03/08/12 18:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 08:00	03/08/12 18:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:01	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 08:00	03/08/12 18:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:01	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:01	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:01	1
<b>Zinc</b>	<b>0.020 J</b>		0.10	0.020	mg/L		03/08/12 08:00	03/08/12 18:01	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 08:00	03/08/12 18:01	1
Boron	<0.10		0.10	0.050	mg/L		03/08/12 08:00	03/08/12 18:01	1
<b>Manganese</b>	<b>0.92</b>		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:01	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Arsenic</b>	<b>5.3</b>		0.57	0.12	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Barium</b>	<b>93</b>		0.57	0.067	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.017	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.028	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Chromium</b>	<b>12</b>		0.57	0.094	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Copper</b>	<b>9.7</b>		0.57	0.15	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Lead</b>	<b>11</b>		0.28	0.097	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Nickel</b>	<b>11</b>		0.57	0.12	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Zinc</b>	<b>31</b>		1.1	0.39	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Sodium</b>	<b>130</b>		57	10	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Potassium</b>	<b>1000</b>		28	3.2	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
<b>Calcium</b>	<b>50000 B</b>		11	2.0	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-1**

**Lab Sample ID: 500-44517-1**

Date Collected: 02/28/12 16:30

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.9

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12000		11	4.9	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Vanadium	23		0.28	0.043	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Magnesium	7600		5.7	1.1	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Boron	2.7	J	2.8	0.53	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Manganese	470		0.57	0.080	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1
Cobalt	6.1		0.28	0.030	mg/Kg	☼	03/06/12 09:45	03/08/12 02:48	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 08:00	03/09/12 12:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 08:00	03/09/12 12:48	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:19	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0054	mg/Kg	☼	03/06/12 08:30	03/06/12 10:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.61		0.200	0.200	SU			03/08/12 16:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-2**

**Lab Sample ID: 500-44517-2**

Date Collected: 02/28/12 16:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.24		0.24	0.090	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Benzene	<0.012		0.012	0.0038	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Bromodichloromethane	<0.094		0.094	0.013	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Bromoform	<0.094		0.094	0.027	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Bromomethane	<0.094		0.094	0.041	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
2-Butanone (MEK)	<0.24		0.24	0.049	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Carbon disulfide	<0.24		0.24	0.021	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Carbon tetrachloride	<0.047		0.047	0.013	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Chlorobenzene	<0.047		0.047	0.011	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Chloroethane	<0.094		0.094	0.023	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Chloroform	<0.047		0.047	0.012	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Chloromethane	<0.094		0.094	0.023	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
cis-1,2-Dichloroethene	<0.047		0.047	0.011	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
cis-1,3-Dichloropropene	<0.047		0.047	0.013	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Dibromochloromethane	<0.094		0.094	0.018	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,1-Dichloroethane	<0.047		0.047	0.011	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,2-Dichloroethane	<0.047		0.047	0.013	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,1-Dichloroethene	<0.047		0.047	0.014	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,2-Dichloropropane	<0.047		0.047	0.017	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,3-Dichloropropene, Total	<0.047		0.047	0.013	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Ethylbenzene	<0.012		0.012	0.0066	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
2-Hexanone	<0.24 *		0.24	0.026	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Methylene Chloride	<0.24		0.24	0.030	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
4-Methyl-2-pentanone (MIBK)	<0.24		0.24	0.037	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Methyl tert-butyl ether	<0.094		0.094	0.023	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Styrene	<0.047		0.047	0.012	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,1,2,2-Tetrachloroethane	<0.047		0.047	0.017	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Tetrachloroethene	<0.047		0.047	0.010	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Toluene	<0.012		0.012	0.0071	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
trans-1,2-Dichloroethene	<0.047		0.047	0.013	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
trans-1,3-Dichloropropene	<0.047		0.047	0.017	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,1,1-Trichloroethane	<0.047		0.047	0.012	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
1,1,2-Trichloroethane	<0.047		0.047	0.014	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Trichloroethene	<0.012		0.012	0.0071	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Vinyl chloride	<0.012		0.012	0.0059	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50
Xylenes, Total	<0.024		0.024	0.0061	mg/Kg	☼	02/28/12 16:50	03/11/12 07:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		79 - 120	02/28/12 16:50	03/11/12 07:22	50
Dibromofluoromethane	101		74 - 123	02/28/12 16:50	03/11/12 07:22	50
1,2-Dichloroethane-d4 (Surr)	94		75 - 131	02/28/12 16:50	03/11/12 07:22	50
Toluene-d8 (Surr)	104		80 - 120	02/28/12 16:50	03/11/12 07:22	50

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Acenaphthylene	<0.031		0.031	0.0078	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-2**

**Lab Sample ID: 500-44517-2**

**Date Collected: 02/28/12 16:50**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 95.8**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.41</b>		0.17	0.045	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Chrysene	<0.034		0.034	0.0077	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0095	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,4-Dinitrophenol	<0.69		0.69	0.17	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-2**

**Lab Sample ID: 500-44517-2**

Date Collected: 02/28/12 16:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.8

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Phenol	<0.17		0.17	0.054	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	03/02/12 07:00	03/08/12 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		30 - 119	03/02/12 07:00	03/08/12 23:48	1
2-Fluorophenol	73		30 - 110	03/02/12 07:00	03/08/12 23:48	1
Nitrobenzene-d5	93		30 - 115	03/02/12 07:00	03/08/12 23:48	1
Phenol-d5	83		31 - 110	03/02/12 07:00	03/08/12 23:48	1
Terphenyl-d14	93		36 - 134	03/02/12 07:00	03/08/12 23:48	1
2,4,6-Tribromophenol	100		35 - 137	03/02/12 07:00	03/08/12 23:48	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 08:00	03/08/12 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 08:00	03/08/12 18:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 08:00	03/08/12 18:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Lead</b>	<b>0.035</b>		0.0075	0.0050	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:07	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:07	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		03/08/12 08:00	03/08/12 18:07	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Boron</b>	<b>0.60</b>		0.10	0.050	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:07	1
<b>Cobalt</b>	<b>0.0055</b>	<b>J</b>	0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:07	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.13	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Arsenic</b>	<b>2.0</b>		0.48	0.10	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Barium</b>	<b>9.7</b>		0.48	0.057	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Beryllium</b>	<b>0.33</b>		0.19	0.014	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Cadmium</b>	<b>0.15</b>		0.096	0.024	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Chromium</b>	<b>5.6</b>		0.48	0.080	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Copper</b>	<b>7.9</b>		0.48	0.13	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Lead</b>	<b>2.5</b>		0.24	0.082	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Nickel</b>	<b>5.2</b>		0.48	0.11	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Selenium	<0.48		0.48	0.14	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Thallium	<0.48		0.48	0.12	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Zinc</b>	<b>15</b>		0.96	0.33	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Sodium</b>	<b>240</b>		48	8.8	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Potassium</b>	<b>500</b>		24	2.7	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
<b>Calcium</b>	<b>110000</b>	<b>B E</b>	9.6	1.7	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-2**

**Lab Sample ID: 500-44517-2**

Date Collected: 02/28/12 16:50

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 95.8

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5600		9.6	4.2	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Vanadium	11		0.24	0.036	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Magnesium	45000		4.8	0.93	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Boron	3.6		2.4	0.45	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Manganese	230		0.48	0.068	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1
Cobalt	2.1		0.24	0.025	mg/Kg	☼	03/06/12 09:45	03/08/12 02:55	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 08:00	03/09/12 12:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 08:00	03/09/12 12:49	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:21	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0050	mg/Kg	☼	03/06/12 08:30	03/06/12 11:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.62		0.200	0.200	SU			03/08/12 16:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-3**

**Lab Sample ID: 500-44517-3**

Date Collected: 02/28/12 17:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 80.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0024	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Benzene	<0.0049		0.0049	0.00052	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Bromodichloromethane	<0.0049		0.0049	0.00074	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Bromoform	<0.0049	*	0.0049	0.00079	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Bromomethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
2-Butanone (MEK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Carbon disulfide	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Chlorobenzene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Chloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Chloroform	<0.0049		0.0049	0.00089	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Chloromethane	<0.0049		0.0049	0.00080	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00071	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00055	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Dibromochloromethane	<0.0049		0.0049	0.00067	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,2-Dichloroethane	<0.0049		0.0049	0.00050	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,1-Dichloroethene	<0.0049		0.0049	0.00077	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,2-Dichloropropane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00055	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Ethylbenzene	<0.0049		0.0049	0.00073	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
2-Hexanone	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Methylene Chloride	<0.0049		0.0049	0.0014	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.00083	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00073	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Styrene	<0.0049		0.0049	0.00061	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Tetrachloroethene	<0.0049		0.0049	0.00092	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Toluene	<0.0049		0.0049	0.00094	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00093	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00065	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Trichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Vinyl chloride	<0.0049		0.0049	0.00068	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1
Xylenes, Total	<0.0097		0.0097	0.00068	mg/Kg	☼	02/28/12 17:00	03/07/12 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	02/28/12 17:00	03/07/12 17:20	1
Dibromofluoromethane	95		73 - 122	02/28/12 17:00	03/07/12 17:20	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	02/28/12 17:00	03/07/12 17:20	1
Toluene-d8 (Surr)	107		72 - 122	02/28/12 17:00	03/07/12 17:20	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Acenaphthylene	<0.036		0.036	0.0092	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-3**

**Lab Sample ID: 500-44517-3**

**Date Collected: 02/28/12 17:00**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 80.5**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-3**

**Lab Sample ID: 500-44517-3**

Date Collected: 02/28/12 17:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 80.5

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Phenol	<0.20		0.20	0.063	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	03/02/12 07:00	03/09/12 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		30 - 119	03/02/12 07:00	03/09/12 00:08	1
2-Fluorophenol	75		30 - 110	03/02/12 07:00	03/09/12 00:08	1
Nitrobenzene-d5	85		30 - 115	03/02/12 07:00	03/09/12 00:08	1
Phenol-d5	83		31 - 110	03/02/12 07:00	03/09/12 00:08	1
Terphenyl-d14	98		36 - 134	03/02/12 07:00	03/09/12 00:08	1
2,4,6-Tribromophenol	95		35 - 137	03/02/12 07:00	03/09/12 00:08	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:13	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.010	mg/L		03/08/12 08:00	03/08/12 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 08:00	03/08/12 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 08:00	03/08/12 18:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:13	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 08:00	03/08/12 18:13	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:13	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:13	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:13	1
Zinc	<0.10		0.10	0.020	mg/L		03/08/12 08:00	03/08/12 18:13	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 08:00	03/08/12 18:13	1
Boron	<0.10		0.10	0.050	mg/L		03/08/12 08:00	03/08/12 18:13	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Arsenic</b>	<b>7.1</b>		0.62	0.13	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Barium</b>	<b>81</b>		0.62	0.073	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Beryllium</b>	<b>0.84</b>		0.25	0.018	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
Cadmium	<0.12		0.12	0.031	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Chromium</b>	<b>17</b>		0.62	0.10	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Copper</b>	<b>16</b>		0.62	0.17	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Lead</b>	<b>9.5</b>		0.31	0.11	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Nickel</b>	<b>18</b>		0.62	0.14	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Selenium</b>	<b>0.37</b>	<b>J</b>	0.62	0.18	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Thallium</b>	<b>0.29</b>	<b>J</b>	0.62	0.16	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Zinc</b>	<b>38</b>		1.2	0.42	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Sodium</b>	<b>81</b>		62	11	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Potassium</b>	<b>870</b>		31	3.5	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
<b>Calcium</b>	<b>1800</b>	<b>B</b>	12	2.2	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-3**

**Lab Sample ID: 500-44517-3**

Date Collected: 02/28/12 17:00

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 80.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19000		12	5.4	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
Vanadium	34		0.31	0.047	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
Magnesium	3100		6.2	1.2	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
Boron	2.8	J	3.1	0.58	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
Manganese	540		0.62	0.087	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1
Cobalt	7.4		0.31	0.032	mg/Kg	☼	03/06/12 09:45	03/08/12 03:01	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 08:00	03/09/12 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 08:00	03/09/12 12:50	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:22	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0061	mg/Kg	☼	03/06/12 08:30	03/06/12 11:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.25		0.200	0.200	SU			03/08/12 15:31	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-1 DUP**

**Lab Sample ID: 500-44517-4**

Date Collected: 02/28/12 16:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0022	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Benzene	<0.0044		0.0044	0.00048	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Bromodichloromethane	<0.0044		0.0044	0.00067	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Bromoform	<0.0044	*	0.0044	0.00072	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Bromomethane	<0.0044		0.0044	0.00095	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
2-Butanone (MEK)	<0.0044		0.0044	0.00096	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Carbon disulfide	<0.0044		0.0044	0.00063	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Carbon tetrachloride	<0.0044		0.0044	0.00097	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Chlorobenzene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Chloroethane	<0.0044		0.0044	0.00093	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Chloroform	<0.0044		0.0044	0.00081	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Chloromethane	<0.0044		0.0044	0.00073	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00065	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00050	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Dibromochloromethane	<0.0044		0.0044	0.00061	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,2-Dichloroethane	<0.0044		0.0044	0.00045	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,1-Dichloroethene	<0.0044		0.0044	0.00070	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,2-Dichloropropane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00050	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Ethylbenzene	<0.0044		0.0044	0.00066	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
2-Hexanone	<0.0044		0.0044	0.00063	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00075	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00066	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Styrene	<0.0044		0.0044	0.00056	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Tetrachloroethene	<0.0044		0.0044	0.00084	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Toluene	<0.0044		0.0044	0.00086	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00059	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Vinyl chloride	<0.0044		0.0044	0.00062	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1
Xylenes, Total	<0.0089		0.0089	0.00062	mg/Kg	☼	02/28/12 16:40	03/07/12 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		76 - 120	02/28/12 16:40	03/07/12 17:46	1
Dibromofluoromethane	97		73 - 122	02/28/12 16:40	03/07/12 17:46	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	02/28/12 16:40	03/07/12 17:46	1
Toluene-d8 (Surr)	106		72 - 122	02/28/12 16:40	03/07/12 17:46	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Acenaphthylene	<0.035		0.035	0.0088	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-1 DUP**

**Lab Sample ID: 500-44517-4**

**Date Collected: 02/28/12 16:40**

**Matrix: Solid**

**Date Received: 02/29/12 11:10**

**Percent Solids: 82.5**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-1 DUP**

**Lab Sample ID: 500-44517-4**

Date Collected: 02/28/12 16:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.5

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Phenol	<0.19		0.19	0.061	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	03/02/12 07:00	03/09/12 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		30 - 119	03/02/12 07:00	03/09/12 00:28	1
2-Fluorophenol	55		30 - 110	03/02/12 07:00	03/09/12 00:28	1
Nitrobenzene-d5	58		30 - 115	03/02/12 07:00	03/09/12 00:28	1
Phenol-d5	61		31 - 110	03/02/12 07:00	03/09/12 00:28	1
Terphenyl-d14	66		36 - 134	03/02/12 07:00	03/09/12 00:28	1
2,4,6-Tribromophenol	69		35 - 137	03/02/12 07:00	03/09/12 00:28	1

**Method: 6010B - PPL+Ba Metals - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:19	1
<b>Barium</b>	<b>0.82</b>		0.50	0.010	mg/L		03/08/12 08:00	03/08/12 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/12 08:00	03/08/12 18:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/12 08:00	03/08/12 18:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:19	1
Copper	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		03/08/12 08:00	03/08/12 18:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:19	1
Selenium	<0.050		0.050	0.010	mg/L		03/08/12 08:00	03/08/12 18:19	1
Silver	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:19	1
Zinc	<0.10		0.10	0.020	mg/L		03/08/12 08:00	03/08/12 18:19	1
Iron	<0.20		0.20	0.20	mg/L		03/08/12 08:00	03/08/12 18:19	1
<b>Boron</b>	<b>0.050</b>	<b>J</b>	0.10	0.050	mg/L		03/08/12 08:00	03/08/12 18:19	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		03/08/12 08:00	03/08/12 18:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		03/08/12 08:00	03/08/12 18:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Arsenic</b>	<b>4.3</b>		0.56	0.12	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Barium</b>	<b>95</b>		0.56	0.067	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Beryllium</b>	<b>0.77</b>		0.23	0.017	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Chromium</b>	<b>14</b>		0.56	0.094	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Copper</b>	<b>8.6</b>		0.56	0.15	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Lead</b>	<b>10</b>		0.28	0.097	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Nickel</b>	<b>12</b>		0.56	0.12	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Selenium</b>	<b>0.28</b>	<b>J</b>	0.56	0.16	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Thallium</b>	<b>0.21</b>	<b>J</b>	0.56	0.14	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Zinc</b>	<b>36</b>		1.1	0.39	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Sodium</b>	<b>83</b>		56	10	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Potassium</b>	<b>940</b>		28	3.2	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
<b>Calcium</b>	<b>5200</b>	<b>B</b>	11	2.0	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
 SDG: 500-44517-1

**Client Sample ID: 915B-47-B01-1 DUP**

**Lab Sample ID: 500-44517-4**

Date Collected: 02/28/12 16:40

Matrix: Solid

Date Received: 02/29/12 11:10

Percent Solids: 82.5

**Method: 6010B - Total Metals (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13000		11	4.9	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
Vanadium	27		0.28	0.043	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
Magnesium	4000		5.6	1.1	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
Boron	2.4	J	2.8	0.53	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
Manganese	480		0.56	0.080	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1
Cobalt	7.6		0.28	0.030	mg/Kg	☼	03/06/12 09:45	03/08/12 03:07	1

**Method: 6020 - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0030	mg/L		03/08/12 08:00	03/09/12 12:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/08/12 08:00	03/09/12 12:51	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		03/08/12 10:45	03/09/12 10:24	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0059	mg/Kg	☼	03/06/12 08:30	03/06/12 11:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.26		0.200	0.200	SU			03/08/12 15:42	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US 14 - WO 032

TestAmerica Job ID: 500-44517-1  
SDG: 500-44517-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
*	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.
E	Result exceeded calibration range.

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	<b>Laboratory</b> Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	<b>Project Name:</b> <u>AE14</u>	<b>COC No.:</b> <u>4</u> of <u>5</u>
		<b>Project No.:</b> <u>IDOT2011-032</u>	<b>Lab Job No.:</b> <u>500-44577</u>
		<b>TAT:</b> <input checked="" type="checkbox"/> 15 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> Other	<b>Sample Temp.:</b> <u>3.8</u>
		<b>Sampler:</b>	

**Special Instructions:**  
See Table 1 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
	915B-46-B05-1	2/28	3:10	S			✓	✓			✓	✓	✓	✓		0-4'
	915B-46-B05-2	2/28	3:15	S			✓	✓			✓	✓	✓	✓		4-8'
	915B-46-B06-1	2/28	4:15	S			✓	✓			✓	✓	✓	✓		0-4'
	915B-46-B06-2	2/28	4:20	S			✓	✓			✓	✓	✓	✓		4-8'
1	915B-47-B01-1	2/28	4:30	S	✓	✓					✓	✓	✓	✓		0-5'
2	915B-47-B01-2	2/28	4:50	S	✓	✓					✓	✓	✓	✓		5-10'
3	915B-47-B01-3	2/28	5:00	S	✓	✓					✓	✓	✓	✓		10-15'
4	915B-47-B01-10VP	2/28	4:40	S	✓	✓					✓	✓	✓	✓		0-5'
5	915B-23-001	2/28	5:15	S	✓	✓					✓	✓	✓	✓		0-10'

<b>Relinquished by:</b> <u>[Signature]</u>	<b>Received by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>2/28/12 17:10</u>	<b>Date/Time:</b> <u>2/29/12 1110</u>
<b>Relinquished by:</b> <u>[Signature]</u>	<b>Received by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>2/28/12 1110</u>	<b>Date/Time:</b> <u>2/28/12 1110</u>
<b>Relinquished by:</b> <u>[Signature]</u>	<b>Received by:</b> <u>[Signature]</u>	<b>Date/Time:</b> <u>2/28/12 1110</u>	<b>Date/Time:</b> <u>2/28/12 1110</u>



