



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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21540 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50261 Longitude: -87.53077  
(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: 0311685035 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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.50261 Longitude: -87.53077

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 2034/A-3-B01, -B02, -B03, AND -B05 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-3. SEE FIGURE 2 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: 500-52302. TEKLAB WORK ORDER NO.: 13120026.

**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

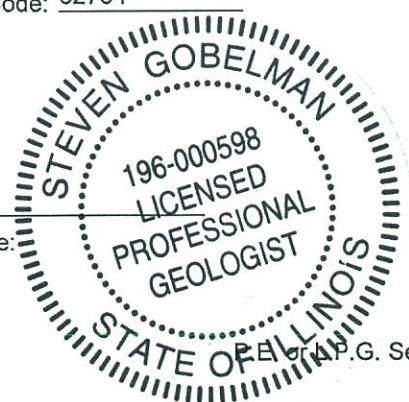
Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
\_\_\_\_\_  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

3/17/14

Date:



\_\_\_\_\_  
P.G. 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
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 2034A-3**

**Tuff Cars**

Sample ID	2034A-3-B01-1	2034A-3-B01-1 DUP	2034A-3-B01-2	2034A-3-B02-1	2034A-3-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)	0-4	0-4	4-8	0-4	4-8						
Sample Date	11/13/2012	11/13/2012	11/13/2012	11/13/2012	11/13/2012						
PID	0	0	0	0	0						
Sample pH	7.66	7.73	7.83	7.99	8						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>											
Arsenic	3.9	5	3.9	3.3	2.9	11.3	NA	11.3	NA	13	NA

Sample ID	2034A-3-B03-1	2034A-3-B03-2	2034A-3-B05-1	2034A-3-B05-2	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	11/13/2012	11/13/2012	11/13/2012	11/13/2012							
PID	0	0	0	0							
Sample pH	8.78	8.48	8.21	8.63							
Matrix	Soil	Soil	Soil	Soil							
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>											
Arsenic	5.2	13	1.3	4.1	4.6	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: 500-52302-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/10/2012 4:58:26 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.*

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-1**

**Lab Sample ID: 500-52302-11**

Date Collected: 11/13/12 09:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0018	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	11/13/12 09:30	11/16/12 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 09:30	11/16/12 16:24	1
Dibromofluoromethane	107		73 - 122	11/13/12 09:30	11/16/12 16:24	1
1,2-Dichloroethane-d4 (Surr)	102		74 - 123	11/13/12 09:30	11/16/12 16:24	1
Toluene-d8 (Surr)	98		72 - 122	11/13/12 09:30	11/16/12 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-1**

**Lab Sample ID: 500-52302-11**

**Date Collected: 11/13/12 09:30**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Fluoranthene</b>	<b>0.033</b>	<b>J</b>	0.037	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Pyrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Benzo[a]anthracene</b>	<b>0.023</b>	<b>J</b>	0.037	0.0078	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Chrysene</b>	<b>0.034</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-1**

**Lab Sample ID: 500-52302-11**

Date Collected: 11/13/12 09:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Benzo[b]fluoranthene</b>	<b>0.048</b>		0.037	0.0072	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Benzo[k]fluoranthene</b>	<b>0.023 J</b>		0.037	0.0088	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Benzo[a]pyrene</b>	<b>0.034 J</b>		0.037	0.0067	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.027 J</b>		0.037	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Benzo[g,h,i]perylene</b>	<b>0.030 J</b>		0.037	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/27/12 16:58	12/06/12 22:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	55		30 - 110				11/27/12 16:58	12/06/12 22:53	1
Phenol-d5	66		31 - 110				11/27/12 16:58	12/06/12 22:53	1
Nitrobenzene-d5	61		30 - 115				11/27/12 16:58	12/06/12 22:53	1
2-Fluorobiphenyl	66		30 - 119				11/27/12 16:58	12/06/12 22:53	1
2,4,6-Tribromophenol	83		35 - 137				11/27/12 16:58	12/06/12 22:53	1
Terphenyl-d14	79		36 - 134				11/27/12 16:58	12/06/12 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Arsenic</b>	<b>4.1</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Barium</b>	<b>64</b>		0.55	0.065	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Beryllium</b>	<b>0.43</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Boron</b>	<b>3.2</b>		2.7	0.51	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Cadmium</b>	<b>0.20</b>		0.11	0.027	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Calcium</b>	<b>2900 B</b>		11	1.9	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Chromium</b>	<b>9.5</b>		0.55	0.091	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Cobalt</b>	<b>3.6</b>		0.27	0.029	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Copper</b>	<b>5.9</b>		0.55	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Iron</b>	<b>7800</b>		11	4.7	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Lead</b>	<b>9.9</b>		0.27	0.094	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Magnesium</b>	<b>2400</b>		5.5	1.1	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Manganese</b>	<b>49</b>		0.55	0.077	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Nickel</b>	<b>9.6</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Potassium</b>	<b>650</b>		27	3.1	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Selenium</b>	<b>0.30 J</b>		0.55	0.16	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Sodium</b>	<b>660 B</b>		55	10	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Vanadium</b>	<b>15</b>		0.27	0.042	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1
<b>Zinc</b>	<b>71</b>		1.1	0.38	mg/Kg	☼	11/14/12 16:00	11/20/12 07:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.21 J</b>		0.50	0.010	mg/L		11/19/12 15:30	11/28/12 05:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 05:01	1
<b>Boron</b>	<b>1.7</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 05:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 05:01	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-1**

**Lab Sample ID: 500-52302-11**

Date Collected: 11/13/12 09:30

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:01	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:01	1
<b>Iron</b>	<b>0.32</b>		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 05:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 05:01	1
<b>Manganese</b>	<b>0.059</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:01	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:01	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 05:01	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:01	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/01/12 20:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000082</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:37	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0070</b>	<b>J</b>	0.017	0.0065	mg/Kg	☆	11/28/12 18:00	11/29/12 10:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.21</b>		0.200	0.200	SU			11/19/12 08:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-2**

**Lab Sample ID: 500-52302-12**

**Date Collected: 11/13/12 09:40**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.24		0.24	0.062	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Benzene	<0.012		0.012	0.0035	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Bromodichloromethane	<0.095		0.095	0.016	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Bromoform	<0.095		0.095	0.021	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Bromomethane	<0.095		0.095	0.032	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
2-Butanone (MEK)	<0.24		0.24	0.070	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Carbon disulfide	<0.24		0.24	0.020	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Carbon tetrachloride	<0.047		0.047	0.012	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Chlorobenzene	<0.047		0.047	0.0068	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Chloroethane	<0.095		0.095	0.021	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Chloroform	<0.047		0.047	0.0097	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Chloromethane	<0.095		0.095	0.022	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
cis-1,2-Dichloroethene	<0.047		0.047	0.0058	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
cis-1,3-Dichloropropene	<0.047		0.047	0.0084	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Dibromochloromethane	<0.095		0.095	0.016	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,1-Dichloroethane	<0.047		0.047	0.0088	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,2-Dichloroethane	<0.047		0.047	0.014	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,1-Dichloroethene	<0.047		0.047	0.015	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,2-Dichloropropane	<0.047		0.047	0.0093	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,3-Dichloropropene, Total	<0.047		0.047	0.0084	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Ethylbenzene	<0.012		0.012	0.0060	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
2-Hexanone	<0.24		0.24	0.027	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Methylene Chloride	<0.24		0.24	0.032	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
4-Methyl-2-pentanone (MIBK)	<0.24		0.24	0.016	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Methyl tert-butyl ether	<0.095		0.095	0.020	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Styrene	<0.047		0.047	0.0047	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,1,2,2-Tetrachloroethane	<0.047		0.047	0.011	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Tetrachloroethene	<0.047		0.047	0.0079	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Toluene	<0.012		0.012	0.0054	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
trans-1,2-Dichloroethene	<0.047		0.047	0.012	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
trans-1,3-Dichloropropene	<0.047		0.047	0.0099	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,1,1-Trichloroethane	<0.047		0.047	0.0095	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
1,1,2-Trichloroethane	<0.047		0.047	0.013	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Trichloroethene	<0.024		0.024	0.0088	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Vinyl chloride	<0.012		0.012	0.0049	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50
Xylenes, Total	<0.024		0.024	0.0032	mg/Kg	☼	11/13/12 09:40	11/21/12 15:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		79 - 120	11/13/12 09:40	11/21/12 15:41	50
Dibromofluoromethane	109		74 - 123	11/13/12 09:40	11/21/12 15:41	50
1,2-Dichloroethane-d4 (Surr)	115		75 - 131	11/13/12 09:40	11/21/12 15:41	50
Toluene-d8 (Surr)	111		80 - 120	11/13/12 09:40	11/21/12 15:41	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-2**

**Lab Sample ID: 500-52302-12**

**Date Collected: 11/13/12 09:40**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Naphthalene	<0.035		0.035	0.0069	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Anthracene	<0.035		0.035	0.0084	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Benzo[a]anthracene	<0.035		0.035	0.0075	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-2**

**Lab Sample ID: 500-52302-12**

Date Collected: 11/13/12 09:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Dibenz(a,h)anthracene	<0.035		0.035	0.010	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/27/12 16:58	12/06/12 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110	11/27/12 16:58	12/06/12 23:14	1
Phenol-d5	57		31 - 110	11/27/12 16:58	12/06/12 23:14	1
Nitrobenzene-d5	55		30 - 115	11/27/12 16:58	12/06/12 23:14	1
2-Fluorobiphenyl	58		30 - 119	11/27/12 16:58	12/06/12 23:14	1
2,4,6-Tribromophenol	62		35 - 137	11/27/12 16:58	12/06/12 23:14	1
Terphenyl-d14	64		36 - 134	11/27/12 16:58	12/06/12 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Arsenic</b>	<b>4.6</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Barium</b>	<b>11</b>		0.52	0.062	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Beryllium</b>	<b>0.25</b>		0.21	0.015	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Boron</b>	<b>2.9</b>		2.6	0.49	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Cadmium</b>	<b>0.26</b>		0.10	0.026	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Calcium</b>	<b>15000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Chromium</b>	<b>5.5</b>		0.52	0.087	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Cobalt</b>	<b>7.8</b>		0.26	0.027	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Copper</b>	<b>12</b>		0.52	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Iron</b>	<b>8300</b>		10	4.5	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Lead</b>	<b>6.3</b>		0.26	0.090	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Magnesium</b>	<b>9300</b>		5.2	1.0	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Manganese</b>	<b>110</b>		0.52	0.074	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Nickel</b>	<b>14</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Potassium</b>	<b>560</b>		26	3.0	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Sodium</b>	<b>320</b>	<b>B</b>	52	9.6	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Vanadium</b>	<b>11</b>		0.26	0.040	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1
<b>Zinc</b>	<b>23</b>		1.0	0.36	mg/Kg	☼	11/14/12 16:00	11/20/12 08:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 05:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 05:07	1
<b>Boron</b>	<b>2.3</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 05:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 05:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B05-2**

**Lab Sample ID: 500-52302-12**

Date Collected: 11/13/12 09:40

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:07	1
<b>Cobalt</b>	<b>0.044</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:07	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:07	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 05:07	1
<b>Lead</b>	<b>0.0057</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 05:07	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:07	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:07	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 05:07	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:07	1
<b>Zinc</b>	<b>0.035</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 05:07	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		11/19/12 15:30	12/01/12 20:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000084</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0068	mg/Kg	☆	11/28/12 18:00	11/29/12 10:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.63</b>		0.200	0.200	SU			11/19/12 08:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1**

**Lab Sample ID: 500-52302-15**

**Date Collected: 11/13/12 10:05**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/13/12 10:05	11/16/12 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/13/12 10:05	11/16/12 17:55	1
Dibromofluoromethane	107		73 - 122	11/13/12 10:05	11/16/12 17:55	1
1,2-Dichloroethane-d4 (Surr)	101		74 - 123	11/13/12 10:05	11/16/12 17:55	1
Toluene-d8 (Surr)	98		72 - 122	11/13/12 10:05	11/16/12 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1**

**Lab Sample ID: 500-52302-15**

**Date Collected: 11/13/12 10:05**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Isophorone	<0.18		0.18	0.040	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
<b>Phenanthrene</b>	<b>0.028</b>	<b>J</b>	0.036	0.015	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Carbazole	<0.18		0.18	0.051	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
<b>Fluoranthene</b>	<b>0.058</b>		0.036	0.015	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
<b>Pyrene</b>	<b>0.043</b>		0.036	0.013	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
<b>Benzo[a]anthracene</b>	<b>0.025</b>	<b>J</b>	0.036	0.0076	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1
<b>Chrysene</b>	<b>0.028</b>	<b>J</b>	0.036	0.0082	mg/Kg	*	11/27/12 16:58	12/07/12 22:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1**

**Lab Sample ID: 500-52302-15**

Date Collected: 11/13/12 10:05

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
<b>Benzo[b]fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0070	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
<b>Benzo[k]fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0087	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
<b>Benzo[a]pyrene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.020</b>	<b>J</b>	0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
<b>Benzo[g,h,i]perylene</b>	<b>0.023</b>	<b>J</b>	0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/27/12 16:58	12/07/12 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	49		30 - 110	11/27/12 16:58	12/07/12 22:33	1
Phenol-d5	52		31 - 110	11/27/12 16:58	12/07/12 22:33	1
Nitrobenzene-d5	48		30 - 115	11/27/12 16:58	12/07/12 22:33	1
2-Fluorobiphenyl	59		30 - 119	11/27/12 16:58	12/07/12 22:33	1
2,4,6-Tribromophenol	66		35 - 137	11/27/12 16:58	12/07/12 22:33	1
Terphenyl-d14	64		36 - 134	11/27/12 16:58	12/07/12 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Arsenic</b>	<b>3.9</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Barium</b>	<b>61</b>		0.55	0.065	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Beryllium</b>	<b>0.50</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Boron</b>	<b>3.2</b>		2.7	0.51	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Cadmium</b>	<b>0.48</b>		0.11	0.027	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Calcium</b>	<b>3300</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Chromium</b>	<b>9.9</b>		0.55	0.092	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Cobalt</b>	<b>3.9</b>		0.27	0.029	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Copper</b>	<b>11</b>		0.55	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Iron</b>	<b>9500</b>		11	4.8	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Lead</b>	<b>32</b>		0.27	0.094	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Magnesium</b>	<b>2200</b>		5.5	1.1	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Manganese</b>	<b>87</b>		0.55	0.077	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Nickel</b>	<b>10</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Potassium</b>	<b>650</b>		27	3.1	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Selenium</b>	<b>0.49</b>	<b>J</b>	0.55	0.16	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Sodium</b>	<b>610</b>	<b>B</b>	55	10	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Vanadium</b>	<b>14</b>		0.27	0.042	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1
<b>Zinc</b>	<b>49</b>		1.1	0.38	mg/Kg	☼	11/14/12 16:00	11/20/12 08:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 05:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 05:41	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 05:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 05:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1**

**Lab Sample ID: 500-52302-15**

Date Collected: 11/13/12 10:05

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:41	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:41	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 05:41	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 05:41	1
<b>Manganese</b>	<b>0.061</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:41	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:41	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 05:41	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:41	1
<b>Zinc</b>	<b>0.029 J</b>		0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/01/12 20:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000082</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0070</b>	<b>J</b>	0.017	0.0065	mg/Kg	☼	11/28/12 18:00	11/29/12 10:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.66</b>		0.200	0.200	SU			11/19/12 08:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1DUP**

**Lab Sample ID: 500-52302-16**

Date Collected: 11/13/12 10:10

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	11/13/12 10:10	11/16/12 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 10:10	11/16/12 18:18	1
Dibromofluoromethane	104		73 - 122	11/13/12 10:10	11/16/12 18:18	1
1,2-Dichloroethane-d4 (Surr)	100		74 - 123	11/13/12 10:10	11/16/12 18:18	1
Toluene-d8 (Surr)	98		72 - 122	11/13/12 10:10	11/16/12 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1DUP**

**Lab Sample ID: 500-52302-16**

**Date Collected: 11/13/12 10:10**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Chrysene	<0.036		0.036	0.0081	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1DUP**

**Lab Sample ID: 500-52302-16**

Date Collected: 11/13/12 10:10

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/27/12 16:58	12/07/12 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		30 - 110				11/27/12 16:58	12/07/12 18:27	1
Phenol-d5	66		31 - 110				11/27/12 16:58	12/07/12 18:27	1
Nitrobenzene-d5	64		30 - 115				11/27/12 16:58	12/07/12 18:27	1
2-Fluorobiphenyl	67		30 - 119				11/27/12 16:58	12/07/12 18:27	1
2,4,6-Tribromophenol	75		35 - 137				11/27/12 16:58	12/07/12 18:27	1
Terphenyl-d14	70		36 - 134				11/27/12 16:58	12/07/12 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Arsenic</b>	<b>5.0</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Barium</b>	<b>56</b>		0.52	0.061	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Beryllium</b>	<b>0.43</b>		0.21	0.015	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Boron</b>	<b>2.2 J</b>		2.6	0.48	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Cadmium</b>	<b>0.26</b>		0.10	0.026	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Calcium</b>	<b>3100 B</b>		10	1.8	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Chromium</b>	<b>9.3</b>		0.52	0.086	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Cobalt</b>	<b>4.2</b>		0.26	0.027	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Copper</b>	<b>6.5</b>		0.52	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Iron</b>	<b>10000</b>		10	4.5	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Lead</b>	<b>13</b>		0.26	0.089	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Magnesium</b>	<b>2200</b>		5.2	1.0	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Manganese</b>	<b>61</b>		0.52	0.073	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Nickel</b>	<b>9.6</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Potassium</b>	<b>530</b>		26	2.9	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Selenium</b>	<b>0.31 J</b>		0.52	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Sodium</b>	<b>360 B</b>		52	9.5	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Thallium</b>	<b>0.16 J</b>		0.52	0.13	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Vanadium</b>	<b>12</b>		0.26	0.039	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1
<b>Zinc</b>	<b>28</b>		1.0	0.35	mg/Kg	☼	11/14/12 16:00	11/20/12 08:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.21 J</b>		0.50	0.010	mg/L		11/19/12 15:30	11/28/12 05:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 05:47	1
<b>Boron</b>	<b>2.1</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 05:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 05:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-1DUP**

**Lab Sample ID: 500-52302-16**

Date Collected: 11/13/12 10:10

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:47	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:47	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 05:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 05:47	1
<b>Manganese</b>	<b>0.057</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:47	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:47	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 05:47	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:47	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 05:47	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		11/19/12 15:30	12/01/12 20:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000080</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:45	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.013</b>	<b>J</b>	0.018	0.0069	mg/Kg	☼	11/28/12 18:00	11/29/12 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.73</b>		0.200	0.200	SU			11/19/12 08:49	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-2**

**Lab Sample ID: 500-52302-17**

**Date Collected: 11/13/12 10:15**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0056		0.0056	0.0024	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Benzene	<0.0056		0.0056	0.00077	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Bromodichloromethane	<0.0056		0.0056	0.00097	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Bromoform	<0.0056		0.0056	0.0013	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Bromomethane	<0.0056		0.0056	0.0017	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Carbon disulfide	<0.0056		0.0056	0.00084	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Carbon tetrachloride	<0.0056		0.0056	0.0010	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Chlorobenzene	<0.0056		0.0056	0.00057	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Chloroethane	<0.0056		0.0056	0.0015	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Chloroform	<0.0056		0.0056	0.00065	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Chloromethane	<0.0056		0.0056	0.0012	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.00079	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.00074	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Dibromochloromethane	<0.0056		0.0056	0.00098	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,1-Dichloroethane	<0.0056		0.0056	0.00089	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,1-Dichloroethene	<0.0056		0.0056	0.00091	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,2-Dichloropropane	<0.0056		0.0056	0.00085	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.00074	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Ethylbenzene	<0.0056		0.0056	0.0011	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
2-Hexanone	<0.0056		0.0056	0.0016	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Methylene Chloride	<0.0056		0.0056	0.0015	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0015	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Methyl tert-butyl ether	<0.0056		0.0056	0.00093	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Styrene	<0.0056		0.0056	0.00074	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,1,2,2-Tetrachloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Tetrachloroethene	<0.0056		0.0056	0.00086	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Toluene	<0.0056		0.0056	0.00079	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.00077	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0010	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.00084	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.00077	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Trichloroethene	<0.0056		0.0056	0.00093	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Vinyl chloride	<0.0056		0.0056	0.0012	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1
Xylenes, Total	<0.011		0.011	0.00051	mg/Kg	☼	11/13/12 10:15	11/19/12 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/13/12 10:15	11/19/12 15:22	1
Dibromofluoromethane	106		73 - 122	11/13/12 10:15	11/19/12 15:22	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/13/12 10:15	11/19/12 15:22	1
Toluene-d8 (Surr)	100		72 - 122	11/13/12 10:15	11/19/12 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-2**

**Lab Sample ID: 500-52302-17**

**Date Collected: 11/13/12 10:15**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.036	0.013	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
<b>Benzo[a]anthracene</b>	<b>0.0079</b>	<b>J</b>	0.036	0.0077	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
<b>Chrysene</b>	<b>0.0088</b>	<b>J</b>	0.036	0.0083	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-2**

**Lab Sample ID: 500-52302-17**

Date Collected: 11/13/12 10:15

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.036	0.0071	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
<b>Benzo[a]pyrene</b>	<b>0.0084</b>	<b>J</b>	0.036	0.0067	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/27/12 16:58	12/07/12 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110	11/27/12 16:58	12/07/12 18:43	1
Phenol-d5	44		31 - 110	11/27/12 16:58	12/07/12 18:43	1
Nitrobenzene-d5	42		30 - 115	11/27/12 16:58	12/07/12 18:43	1
2-Fluorobiphenyl	50		30 - 119	11/27/12 16:58	12/07/12 18:43	1
2,4,6-Tribromophenol	57		35 - 137	11/27/12 16:58	12/07/12 18:43	1
Terphenyl-d14	62		36 - 134	11/27/12 16:58	12/07/12 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Arsenic</b>	<b>3.9</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Barium</b>	<b>19</b>		0.56	0.066	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Beryllium</b>	<b>0.31</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Boron</b>	<b>4.0</b>		2.8	0.52	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.028	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Calcium</b>	<b>20000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Chromium</b>	<b>7.3</b>		0.56	0.093	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Cobalt</b>	<b>5.1</b>		0.28	0.029	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Copper</b>	<b>8.6</b>		0.56	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Iron</b>	<b>8700</b>		11	4.8	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Lead</b>	<b>6.3</b>		0.28	0.096	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Magnesium</b>	<b>11000</b>		5.6	1.1	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Manganese</b>	<b>170</b>		0.56	0.079	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Nickel</b>	<b>12</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Potassium</b>	<b>890</b>		28	3.2	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Sodium</b>	<b>230</b>	<b>B</b>	56	10	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Vanadium</b>	<b>9.9</b>		0.28	0.042	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1
<b>Zinc</b>	<b>23</b>		1.1	0.38	mg/Kg	☼	11/14/12 16:00	11/20/12 08:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 05:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 05:53	1
<b>Boron</b>	<b>1.4</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 05:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 05:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B01-2**

**Lab Sample ID: 500-52302-17**

Date Collected: 11/13/12 10:15

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:53	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:53	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:53	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 05:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 05:53	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:53	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:53	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 05:53	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:53	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/01/12 20:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000082</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0073	mg/Kg	☆	11/28/12 18:00	11/29/12 10:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.83</b>		0.200	0.200	SU			11/19/12 08:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-1**

**Lab Sample ID: 500-52302-22**

Date Collected: 11/13/12 12:00

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0023</b>	<b>J</b>	0.0041	0.0018	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
<b>Methylene Chloride</b>	<b>0.0067</b>		0.0041	0.0011	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	11/13/12 12:00	11/16/12 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/13/12 12:00	11/16/12 19:03	1
Dibromofluoromethane	114		73 - 122	11/13/12 12:00	11/16/12 19:03	1
1,2-Dichloroethane-d4 (Surr)	103		74 - 123	11/13/12 12:00	11/16/12 19:03	1
Toluene-d8 (Surr)	99		72 - 122	11/13/12 12:00	11/16/12 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-1**

**Lab Sample ID: 500-52302-22**

**Date Collected: 11/13/12 12:00**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 92.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Fluoranthene</b>	<b>0.028</b>	<b>J</b>	0.035	0.014	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Pyrene</b>	<b>0.056</b>		0.035	0.013	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Benzo[a]anthracene</b>	<b>0.021</b>	<b>J</b>	0.035	0.0074	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Chrysene</b>	<b>0.047</b>		0.035	0.0080	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-1**

**Lab Sample ID: 500-52302-22**

Date Collected: 11/13/12 12:00

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Benzo[b]fluoranthene</b>	<b>0.032</b>	<b>J</b>	0.035	0.0069	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.035	0.0084	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Benzo[a]pyrene</b>	<b>0.039</b>		0.035	0.0064	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.021</b>	<b>J</b>	0.035	0.012	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Dibenz[a,h]anthracene</b>	<b>0.010</b>	<b>J</b>	0.035	0.0099	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Benzo[g,h,i]perylene</b>	<b>0.041</b>		0.035	0.012	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/27/12 16:58	12/08/12 12:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	67		30 - 110				11/27/12 16:58	12/08/12 12:21	1
Phenol-d5	72		31 - 110				11/27/12 16:58	12/08/12 12:21	1
Nitrobenzene-d5	66		30 - 115				11/27/12 16:58	12/08/12 12:21	1
2-Fluorobiphenyl	74		30 - 119				11/27/12 16:58	12/08/12 12:21	1
2,4,6-Tribromophenol	78		35 - 137				11/27/12 16:58	12/08/12 12:21	1
Terphenyl-d14	80		36 - 134				11/27/12 16:58	12/08/12 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Arsenic</b>	<b>3.3</b>		0.51	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Barium</b>	<b>57</b>		0.51	0.061	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Beryllium</b>	<b>0.50</b>		0.20	0.015	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Boron</b>	<b>3.4</b>		2.6	0.48	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Cadmium</b>	<b>0.21</b>		0.10	0.025	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Calcium</b>	<b>2300</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Chromium</b>	<b>11</b>		0.51	0.085	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Cobalt</b>	<b>3.9</b>		0.26	0.027	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Copper</b>	<b>7.7</b>		0.51	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Iron</b>	<b>8700</b>		10	4.4	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Lead</b>	<b>9.2</b>		0.26	0.088	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Magnesium</b>	<b>2100</b>		5.1	0.99	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Manganese</b>	<b>56</b>		0.51	0.072	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Nickel</b>	<b>11</b>		0.51	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Potassium</b>	<b>660</b>		26	2.9	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Selenium</b>	<b>0.26</b>	<b>J</b>	0.51	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Sodium</b>	<b>550</b>	<b>B</b>	51	9.3	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Vanadium</b>	<b>15</b>		0.26	0.039	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1
<b>Zinc</b>	<b>22</b>		1.0	0.35	mg/Kg	☼	11/14/12 16:00	11/20/12 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 05:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 05:59	1
<b>Boron</b>	<b>1.5</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 05:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 05:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-1**

**Lab Sample ID: 500-52302-22**

Date Collected: 11/13/12 12:00

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:59	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:59	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:59	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 05:59	1
<b>Lead</b>	<b>0.0054</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 05:59	1
<b>Manganese</b>	<b>0.048</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 05:59	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 05:59	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 05:59	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/04/12 17:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000083</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:49	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0092</b>	<b>J</b>	0.017	0.0064	mg/Kg	☆	11/28/12 18:00	11/29/12 10:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.99</b>		0.200	0.200	SU			11/19/12 08:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-2**

**Lab Sample ID: 500-52302-23**

Date Collected: 11/13/12 12:10

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Bromoform	<0.0041		0.0041	0.00093	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg	☼	11/13/12 12:10	11/16/12 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 12:10	11/16/12 19:26	1
Dibromofluoromethane	103		73 - 122	11/13/12 12:10	11/16/12 19:26	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/13/12 12:10	11/16/12 19:26	1
Toluene-d8 (Surr)	97		72 - 122	11/13/12 12:10	11/16/12 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-2**

**Lab Sample ID: 500-52302-23**

**Date Collected: 11/13/12 12:10**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 87.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Isophorone	<0.19		0.19	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Carbazole	<0.19		0.19	0.052	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.037	0.013	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1
<b>Chrysene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0083	mg/Kg	*	11/27/12 16:58	12/07/12 20:54	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-2**

**Lab Sample ID: 500-52302-23**

Date Collected: 11/13/12 12:10

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
<b>Benzo[b]fluoranthene</b>	<b>0.0085</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
<b>Benzo[a]pyrene</b>	<b>0.0098</b>	<b>J</b>	0.037	0.0067	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.013</b>	<b>J</b>	0.037	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	<b>J</b>	0.037	0.012	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/27/12 16:58	12/07/12 20:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	65		30 - 110				11/27/12 16:58	12/07/12 20:54	1
Phenol-d5	65		31 - 110				11/27/12 16:58	12/07/12 20:54	1
Nitrobenzene-d5	63		30 - 115				11/27/12 16:58	12/07/12 20:54	1
2-Fluorobiphenyl	69		30 - 119				11/27/12 16:58	12/07/12 20:54	1
2,4,6-Tribromophenol	88		35 - 137				11/27/12 16:58	12/07/12 20:54	1
Terphenyl-d14	84		36 - 134				11/27/12 16:58	12/07/12 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Arsenic</b>	<b>2.9</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Barium</b>	<b>14</b>		0.52	0.062	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Beryllium</b>	<b>0.21</b>		0.21	0.015	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Boron</b>	<b>2.1</b>	<b>J</b>	2.6	0.49	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Cadmium</b>	<b>0.050</b>	<b>J</b>	0.10	0.026	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Calcium</b>	<b>11000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Chromium</b>	<b>5.5</b>		0.52	0.087	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Cobalt</b>	<b>4.0</b>		0.26	0.027	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Copper</b>	<b>6.0</b>		0.52	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Iron</b>	<b>5300</b>		10	4.5	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Lead</b>	<b>5.1</b>		0.26	0.090	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Magnesium</b>	<b>7000</b>	<b>B</b>	5.2	1.0	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Manganese</b>	<b>52</b>		0.52	0.074	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Nickel</b>	<b>9.2</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Potassium</b>	<b>340</b>		26	3.0	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Sodium</b>	<b>210</b>	<b>B</b>	52	9.6	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Vanadium</b>	<b>8.8</b>		0.26	0.040	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1
<b>Zinc</b>	<b>20</b>		1.0	0.36	mg/Kg	☼	11/14/12 16:00	11/21/12 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 06:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 06:06	1
<b>Boron</b>	<b>2.0</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 06:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 06:06	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B02-2**

**Lab Sample ID: 500-52302-23**

Date Collected: 11/13/12 12:10

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:06	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 06:06	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:06	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 06:06	1
<b>Lead</b>	<b>0.0050</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 06:06	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:06	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:06	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 06:06	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 06:06	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/04/12 17:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000083</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:51	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0066	mg/Kg	☆	11/28/12 18:00	11/29/12 10:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.00</b>		0.200	0.200	SU			11/19/12 08:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-1**

**Lab Sample ID: 500-52302-24**

Date Collected: 11/13/12 12:20

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	11/13/12 12:20	11/16/12 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/13/12 12:20	11/16/12 19:49	1
Dibromofluoromethane	104		73 - 122	11/13/12 12:20	11/16/12 19:49	1
1,2-Dichloroethane-d4 (Surr)	98		74 - 123	11/13/12 12:20	11/16/12 19:49	1
Toluene-d8 (Surr)	98		72 - 122	11/13/12 12:20	11/16/12 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-1**

**Lab Sample ID: 500-52302-24**

Date Collected: 11/13/12 12:20

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Fluoranthene</b>	<b>0.047</b>		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Pyrene</b>	<b>0.054</b>		0.036	0.013	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Benzo[a]anthracene</b>	<b>0.030</b>	<b>J</b>	0.036	0.0076	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Chrysene</b>	<b>0.058</b>		0.036	0.0082	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-1**

**Lab Sample ID: 500-52302-24**

Date Collected: 11/13/12 12:20

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Benzo[b]fluoranthene</b>	<b>0.082</b>		0.036	0.0070	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Benzo[k]fluoranthene</b>	<b>0.056</b>		0.036	0.0086	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Benzo[a]pyrene</b>	<b>0.081</b>		0.036	0.0066	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.063</b>		0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Dibenz(a,h)anthracene</b>	<b>0.025</b>	J	0.036	0.010	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Benzo[g,h,i]perylene</b>	<b>0.091</b>		0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/27/12 16:58	12/08/12 12:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	66		30 - 110				11/27/12 16:58	12/08/12 12:38	1
Phenol-d5	74		31 - 110				11/27/12 16:58	12/08/12 12:38	1
Nitrobenzene-d5	63		30 - 115				11/27/12 16:58	12/08/12 12:38	1
2-Fluorobiphenyl	68		30 - 119				11/27/12 16:58	12/08/12 12:38	1
2,4,6-Tribromophenol	79		35 - 137				11/27/12 16:58	12/08/12 12:38	1
Terphenyl-d14	77		36 - 134				11/27/12 16:58	12/08/12 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Arsenic</b>	<b>5.2</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Barium</b>	<b>54</b>		0.55	0.066	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Beryllium</b>	<b>0.27</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Boron</b>	<b>5.4</b>		2.8	0.51	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.027	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Calcium</b>	<b>110000</b>	B	110	19	mg/Kg	☼	11/14/12 16:00	11/21/12 15:17	10
<b>Chromium</b>	<b>6.2</b>		0.55	0.092	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Cobalt</b>	<b>4.1</b>		0.28	0.029	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Copper</b>	<b>7.0</b>		0.55	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Iron</b>	<b>5600</b>		11	4.8	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Lead</b>	<b>14</b>		0.28	0.095	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Magnesium</b>	<b>68000</b>	B	55	11	mg/Kg	☼	11/14/12 16:00	11/21/12 15:17	10
<b>Manganese</b>	<b>240</b>		0.55	0.078	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Nickel</b>	<b>7.7</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Potassium</b>	<b>790</b>		28	3.1	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Sodium</b>	<b>840</b>	B	55	10	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Vanadium</b>	<b>11</b>		0.28	0.042	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1
<b>Zinc</b>	<b>29</b>		1.1	0.38	mg/Kg	☼	11/14/12 16:00	11/21/12 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.38</b>	J	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 06:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 06:12	1
<b>Boron</b>	<b>1.9</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 06:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 06:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-1**

**Lab Sample ID: 500-52302-24**

Date Collected: 11/13/12 12:20

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:12	1
<b>Cobalt</b>	<b>0.0062</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 06:12	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:12	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 06:12	1
<b>Lead</b>	<b>0.0076</b>		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 06:12	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:12	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 06:12	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 06:12	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 06:12	1
<b>Zinc</b>	<b>0.052</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/04/12 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000079</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:57	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.013</b>	<b>J</b>	0.019	0.0072	mg/Kg	☼	11/28/12 18:00	11/29/12 10:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.78</b>		0.200	0.200	SU			11/19/12 09:02	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-2**

**Lab Sample ID: 500-52302-25**

Date Collected: 11/13/12 12:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0029	J	0.0046	0.0020	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Benzene	<0.0046		0.0046	0.00062	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Bromoform	<0.0046		0.0046	0.0010	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Chloroform	<0.0046		0.0046	0.00052	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Dibromochloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,2-Dichloroethane	<0.0046		0.0046	0.00067	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00075	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Trichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	11/13/12 12:30	11/19/12 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		76 - 120	11/13/12 12:30	11/19/12 15:45	1
Dibromofluoromethane	104		73 - 122	11/13/12 12:30	11/19/12 15:45	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/13/12 12:30	11/19/12 15:45	1
Toluene-d8 (Surr)	102		72 - 122	11/13/12 12:30	11/19/12 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-2**

**Lab Sample ID: 500-52302-25**

Date Collected: 11/13/12 12:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Hexachlorobenzene	<0.081		0.081	0.0080	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Pentachlorophenol	<0.81		0.81	0.21	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
<b>Fluoranthene</b>	<b>0.051</b>		0.040	0.017	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-2**

**Lab Sample ID: 500-52302-25**

Date Collected: 11/13/12 12:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.040	0.0074	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
<b>Benzo[g,h,i]perylene</b>	<b>0.017</b>	<b>J</b>	0.040	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/27/12 17:43	12/06/12 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110	11/27/12 17:43	12/06/12 16:24	1
Phenol-d5	57		31 - 110	11/27/12 17:43	12/06/12 16:24	1
Nitrobenzene-d5	54		30 - 115	11/27/12 17:43	12/06/12 16:24	1
2-Fluorobiphenyl	69		30 - 119	11/27/12 17:43	12/06/12 16:24	1
2,4,6-Tribromophenol	77		35 - 137	11/27/12 17:43	12/06/12 16:24	1
Terphenyl-d14	75		36 - 134	11/27/12 17:43	12/06/12 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Arsenic</b>	<b>13</b>		0.62	0.13	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Barium</b>	<b>48</b>		0.62	0.073	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Beryllium</b>	<b>0.68</b>		0.25	0.018	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Boron</b>	<b>9.8</b>		3.1	0.57	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Cadmium</b>	<b>0.44</b>		0.12	0.030	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Calcium</b>	<b>37000</b>	<b>B</b>	12	2.2	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Chromium</b>	<b>17</b>		0.62	0.10	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Cobalt</b>	<b>9.7</b>		0.31	0.032	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Copper</b>	<b>19</b>		0.62	0.17	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Iron</b>	<b>22000</b>		12	5.3	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Lead</b>	<b>12</b>		0.31	0.11	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	6.2	1.2	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Manganese</b>	<b>340</b>		0.62	0.087	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Nickel</b>	<b>26</b>		0.62	0.13	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Potassium</b>	<b>2700</b>		31	3.5	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
Selenium	<0.62		0.62	0.18	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Sodium</b>	<b>850</b>	<b>B</b>	62	11	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
Thallium	<0.62		0.62	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Vanadium</b>	<b>19</b>		0.31	0.047	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1
<b>Zinc</b>	<b>44</b>		1.2	0.42	mg/Kg	☼	11/14/12 16:00	11/21/12 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 07:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 07:04	1
<b>Boron</b>	<b>0.87</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 07:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 07:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-3-B03-2**

**Lab Sample ID: 500-52302-25**

Date Collected: 11/13/12 12:30

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:04	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:04	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:04	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 07:04	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 07:04	1
<b>Manganese</b>	<b>3.1</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:04	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:04	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 07:04	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:04	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 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		11/19/12 15:30	12/01/12 20:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000072</b>	<b>J B ^ *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:33	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0077	mg/Kg	☼	11/28/12 18:00	11/29/12 11:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.48</b>		0.200	0.200	SU			11/19/12 09:09	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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	Duplicate RPD exceeds the control limit
F	RPD of the MS and MSD exceeds the control limits
*	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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



**CHAIN OF CUSTODY RECORD**

<b>Client Contact</b>		<b>Laboratory</b>	
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 Name: 1/5 30		Project No.: IDOT2011- 05 3	
COC No.: 4 of 4		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.: 500-52302		Sampler: SR/cm	
Sample Temp.		ANALYSES	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals/ <del>Metals</del>	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	2034A-8-B01-1	11/13/12	7:30	S	X						X	X	X	X		0-5'
2	2034A-8-B01-1 DUP		7:35	S												0-5'
3	2034A-8-B01-2		7:40	S												5-10'
4	2034A-5-B01-1		8:10	S												0-4'
5	2034A-5-B01-2		8:20	S												4-8'
6	2034A-4-B02-1		8:40	S												0-4'
7	2034A-4-B02-2		8:50	S												4-8'
8	2034A-4-B01-1		9:00	S												0-4'
9	2034A-4-B01-1 DUP		9:10	S												0-4'
10	2034A-4-B01-2		9:20	S												4-8'
11	2034A-3-B05-1		9:30	S												0-4'
12	2034A-3-B05-2		9:40	S												4-8'

Relinquished by: <i>[Signature]</i>	Date/Time: 11/13/12 3:30	Received by: <i>[Signature]</i>	Date/Time: 11/13/12 15:30
Relinquished by: <i>[Signature]</i>	Date/Time: 11/13/12 16:15	Received by: <i>[Signature]</i>	Date/Time: 11/13/12 16:15
Relinquished by:	Date/Time:	Received by:	Date/Time:



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> Wo 053 Rt 30	<b>COC No.:</b> 2 of 4
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200	<b>Project No.:</b> IDOT2011-053	<b>Lab Job No.:</b> 500-52302
Contact: Colleen Grey email: cgrey@andrews-eng.com	Contact: Dick Wright email: richard.wright@testamericainc.com	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>Sample Temp:</b>
<b>Special Instructions:</b> See Table 2 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Sampler:</b> SR / CM	<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	ANALYSES										Comments	
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
13	2034A-3-B04-1	11/13/12	9:50	S	X	X					X	X	X	X	X	0-4'
14	2034A-3-B04-2		10:00	S	X	X					X	X	X	X	X	4-8'
15	2034A-3-B01-1		10:05	S	X	X					X	X	X	X	X	0-4'
16	2034A-3-B01-01A		10:10	S	X	X					X	X	X	X	X	0-4'
17	2034A-3-B01-2		10:15	S	X	X					X	X	X	X	X	4-8'
18	2034A-8-G01		10:40	W	X	X					X	X	X	X	X	13.52'
19	2034A-5-G01		10:43	W	X	X					X	X	X	X	X	12.6'
20	2034A-4-G01		11:10	W	X	X					X	X	X	X	X	13.15'
21	2034A-3-G01		11:40	W	X	X					X	X	X	X	X	12.15'
22	2034A-3-B02-1		12:00	S	X	X					X	X	X	X	X	0-4'
23	2034A-3-B02-2		12:10	S	X	X					X	X	X	X	X	4-8'
24	2034A-3-B03-1		12:20	S	X	X					X	X	X	X	X	0-4'

<b>Relinquished by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 11/13/12 3:30	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 11/13/12 1530
<b>Relinquished by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 11/13/12 1615	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 11/13/12 1615
<b>Relinquished by:</b>	<b>Date/Time:</b>	<b>Received by:</b>	<b>Date/Time:</b>



# 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: WO #053 R+30  
 Project No.: IDOT2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other  
 Sampler: SR/CW

COC No.: 3 of 4  
 Lab Job No.: 500-52302  
 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	
25	2034A-3-B03-2	11/13/12	12:30	S	X	X					X	X	X	X		4-8'	
26	2034A-7-801-1		12:40	S	X	X					X	X	X	X		0-4'	
27	2034A-7-B01-2		12:50	S	X	X					X	X	X	X		4-8'	
28	2034A-7-901		1:00	W	X	X					X	X	X	X		13.6'	
29	2034A-7-B02-1		1:10	S	X	X					X	X	X	X		0-4'	
30	2034A-7-B02-2		1:20	S	X	X					X	X	X	X		4-8'	
31	2034A-9-B03-1		1:30	S	X	X					X	X	X	X		0-4'	
32	2034A-9-B03-2		1:40	S	X	X					X	X	X	X		4-8'	
33	2034A-9-B01-1		1:50	S	X	X					X	X	X	X		0-4'	
34	2034A-9-B01-10UP		2:00	S	X	X					X	X	X	X		0-4'	
35	2034A-9-B01-2		2:10	S	X	X					X	X	X	X		4-8'	
36	2034A-9-901		3:00	W	X	X					X	X	X	X		11.05'	
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time
					11/13/12 9:30												11/13/12 1530
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time
					11/13/12 16:15												11/13/12 16:15
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											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:** IDOT2011-053

**WorkOrder:** 13120026

Dear Colleen Grey:

TEKLAB, INC received 11 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120026

**Client Project:** IDOT2011-053

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

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	16
Receiving Check List	17
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120026

**Client Project:** IDOT2011-053

**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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120026

**Client Project:** IDOT2011-053

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

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-001

Client Sample ID: 2034A-3-B01-1

Matrix: SOLID

Collection Date: 11/27/2013 8:05

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	0.0016	0.005		<b>0.0227</b>	mg/L	1	12/05/2013 13:35	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.  
Client Project: IDOT2011-053  
Lab ID: 13120026-002  
Matrix: SOLID

Work Order: 13120026  
Report Date: 09-Dec-13  
Client Sample ID: 2034A-3-B01-1 DUP  
Collection Date: 11/27/2013 8:05

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	0.0016	0.005		<b>0.0914</b>	mg/L	1	12/05/2013 13:42	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-003

Client Sample ID: 2034A-3-B01-2

Matrix: SOLID

Collection Date: 11/27/2013 8:10

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>0.097</b>	mg/L	1	12/05/2013 13:50	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-004

Client Sample ID: 2034A-3-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 9:25

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	0.0016	0.005		<b>0.0203</b>	mg/L	1	12/05/2013 13:53	94313





## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-005

Client Sample ID: 2034A-3-B02-2

Matrix: SOLID

Collection Date: 11/26/2013 9:30

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>0.0588</b>	mg/L	1	12/05/2013 14:08	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-006

Client Sample ID: 2034A-3-B03-1

Matrix: SOLID

Collection Date: 11/26/2013 9:40

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>0.0084</b>	mg/L	1	12/05/2013 14:12	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-007

Client Sample ID: 2034A-3-B03-2

Matrix: SOLID

Collection Date: 11/26/2013 9:45

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>0.102</b>	mg/L	1	12/05/2013 14:23	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-010

Client Sample ID: 2034A-3-B05-1

Matrix: SOLID

Collection Date: 11/27/2013 7:40

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>0.0185</b>	mg/L	1	12/05/2013 14:34	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120026

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120026-011

Client Sample ID: 2034A-3-B05-2

Matrix: SOLID

Collection Date: 11/27/2013 7:45

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>0.0775</b>	mg/L	1	12/05/2013 14:37	94313



# 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: <u>Test America - Chicago</u> Address: <u>2447 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-534-5200</u> Contact: <u>Dick Wright</u> email: <u>richard.wright@testamericainc.com</u>	Project Name: <u>IL30 Cook Co</u> Project No.: <u>DOT2011-053</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>CMA</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: Sample Temp: <u>5.0</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>													
	VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	SPLP Mn/** TCLP Mn	Comments
2034A-3-B01-1												X	13120026 201
2034A-3-B01-2													202
2034A-3-B02-1													203
2034A-3-B02-2													204
2034A-3-B03-1													205
2034A-3-B03-2													206
2034A-3-B04-1													207
2034A-3-B04-2													208
2034A-3-B05-1													209
2034A-3-B05-2													210
													211
Relinquished by: <u>[Signature]</u> Date/Time: <u>11/27/13 4:49PM</u>												Received by: <u>[Signature]</u> Date/Time: <u>12/13 9:25</u>	
Relinquished by: <u>[Signature]</u> Date/Time: <u>12/2/13 12:20</u>												Received by: <u>[Signature]</u> Date/Time: <u>12/13 12:00</u>	
Relinquished by: <u>[Signature]</u> Date/Time:												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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
21579-21591 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50297 Longitude: -87.53076  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.50297 Longitude: -87.53076

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 2034/A-4-B02 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-4. SEE FIGURE 2 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: 500-52302. TEKLAB WORK ORDER NO.: 13120027.

**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

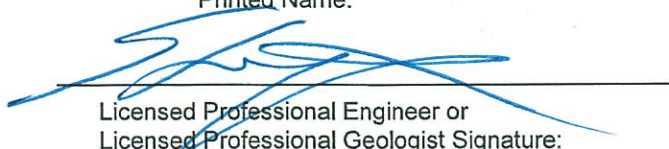
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

3/17/14

Date:



P.E. 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
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 2034A-4**

**Commercial Plaza**

<b>Sample ID</b>	2034A-4-B02-1	2034A-4-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
<b>Sample Depth (ft)</b>	0-4	4-8						
<b>Sample Date</b>	11/13/2012	11/13/2012						
<b>PID</b>	0	0						
<b>Sample pH</b>	8.46	7.81						
<b>Matrix</b>	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: 500-52302-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/10/2012 4:58:26 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.*

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-1**

**Lab Sample ID: 500-52302-6**

Date Collected: 11/13/12 08:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0066		0.0047	0.0020	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	11/13/12 08:40	11/16/12 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 08:40	11/16/12 14:30	1
Dibromofluoromethane	104		73 - 122	11/13/12 08:40	11/16/12 14:30	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/13/12 08:40	11/16/12 14:30	1
Toluene-d8 (Surr)	97		72 - 122	11/13/12 08:40	11/16/12 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-1**

**Lab Sample ID: 500-52302-6**

**Date Collected: 11/13/12 08:40**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Phenanthrene</b>	<b>0.017</b>	<b>J</b>	0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Fluoranthene</b>	<b>0.064</b>		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Pyrene</b>	<b>0.038</b>		0.036	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Benzo[a]anthracene</b>	<b>0.027</b>	<b>J</b>	0.036	0.0077	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Chrysene</b>	<b>0.035</b>	<b>J</b>	0.036	0.0083	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-1**

**Lab Sample ID: 500-52302-6**

Date Collected: 11/13/12 08:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Benzo[b]fluoranthene</b>	<b>0.045</b>		0.036	0.0071	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Benzo[k]fluoranthene</b>	<b>0.0096</b>	J	0.036	0.0087	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Benzo[a]pyrene</b>	<b>0.035</b>	J	0.036	0.0067	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.025</b>	J	0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Benzo[g,h,i]perylene</b>	<b>0.033</b>	J	0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/27/12 16:58	12/06/12 21:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	46		30 - 110				11/27/12 16:58	12/06/12 21:11	1
Phenol-d5	53		31 - 110				11/27/12 16:58	12/06/12 21:11	1
Nitrobenzene-d5	52		30 - 115				11/27/12 16:58	12/06/12 21:11	1
2-Fluorobiphenyl	57		30 - 119				11/27/12 16:58	12/06/12 21:11	1
2,4,6-Tribromophenol	64		35 - 137				11/27/12 16:58	12/06/12 21:11	1
Terphenyl-d14	67		36 - 134				11/27/12 16:58	12/06/12 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Arsenic</b>	<b>3.9</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Barium</b>	<b>59</b>		0.52	0.062	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Beryllium</b>	<b>0.45</b>		0.21	0.015	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Boron</b>	<b>3.3</b>		2.6	0.49	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Cadmium</b>	<b>0.40</b>		0.10	0.026	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Calcium</b>	<b>22000</b>	B	10	1.9	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Chromium</b>	<b>10</b>		0.52	0.088	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Cobalt</b>	<b>4.5</b>		0.26	0.028	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Copper</b>	<b>12</b>		0.52	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Iron</b>	<b>9500</b>		10	4.6	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Lead</b>	<b>22</b>		0.26	0.090	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Magnesium</b>	<b>14000</b>		5.2	1.0	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Manganese</b>	<b>150</b>		0.52	0.074	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Nickel</b>	<b>11</b>		0.52	0.11	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Potassium</b>	<b>910</b>		26	3.0	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Selenium</b>	<b>0.16</b>	J	0.52	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Silver</b>	<b>0.083</b>	J	0.26	0.032	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Sodium</b>	<b>530</b>	B	52	9.6	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Vanadium</b>	<b>14</b>		0.26	0.040	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1
<b>Zinc</b>	<b>38</b>		1.0	0.36	mg/Kg	☼	11/14/12 16:00	11/20/12 07:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.39</b>	J	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 04:30	1
<b>Boron</b>	<b>1.5</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 04:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 04:30	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-1**

**Lab Sample ID: 500-52302-6**

Date Collected: 11/13/12 08:40

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:30	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:30	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:30	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 04:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 04:30	1
<b>Manganese</b>	<b>0.70</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:30	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:30	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 04:30	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:30	1
<b>Zinc</b>	<b>0.035</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 04:30	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		11/19/12 15:30	12/01/12 20:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000085</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0084</b>	<b>J</b>	0.019	0.0072	mg/Kg	☼	11/28/12 18:00	11/29/12 10:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.46</b>		0.200	0.200	SU			11/19/12 08:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-2**

**Lab Sample ID: 500-52302-7**

**Date Collected: 11/13/12 08:50**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Benzene	<0.0054		0.0054	0.00073	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Bromodichloromethane	<0.0054		0.0054	0.00092	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Carbon disulfide	<0.0054		0.0054	0.00080	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Carbon tetrachloride	<0.0054		0.0054	0.00097	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Chlorobenzene	<0.0054		0.0054	0.00054	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Dibromochloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,2-Dichloroethane	<0.0054		0.0054	0.00079	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,2-Dichloropropane	<0.0054		0.0054	0.00081	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00070	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
2-Hexanone	<0.0054		0.0054	0.0015	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Methylene Chloride	<0.0054		0.0054	0.0014	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00088	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Styrene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00096	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Trichloroethene	<0.0054		0.0054	0.00088	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/13/12 08:50	11/19/12 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		76 - 120	11/13/12 08:50	11/19/12 13:50	1
Dibromofluoromethane	110		73 - 122	11/13/12 08:50	11/19/12 13:50	1
1,2-Dichloroethane-d4 (Surr)	99		74 - 123	11/13/12 08:50	11/19/12 13:50	1
Toluene-d8 (Surr)	100		72 - 122	11/13/12 08:50	11/19/12 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.061	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.057	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-2**

**Lab Sample ID: 500-52302-7**

Date Collected: 11/13/12 08:50

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2-Chlorophenol	<0.20		0.20	0.055	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Isophorone	<0.20		0.20	0.043	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Dimethyl phthalate	<0.20		0.20	0.048	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.059	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.052	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Carbazole	<0.20		0.20	0.055	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Pyrene	<0.039		0.039	0.014	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
Benzo[a]anthracene	<0.039		0.039	0.0081	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1
<b>Chrysene</b>	<b>0.0092</b>	<b>J</b>	0.039	0.0088	mg/Kg	*	11/27/12 16:58	12/06/12 21:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-2**

**Lab Sample ID: 500-52302-7**

**Date Collected: 11/13/12 08:50**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Benzo[b]fluoranthene	<0.039		0.039	0.0075	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1
3 & 4 Methylphenol	<0.20		0.20	0.073	mg/Kg	☼	11/27/12 16:58	12/06/12 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110	11/27/12 16:58	12/06/12 21:31	1
Phenol-d5	65		31 - 110	11/27/12 16:58	12/06/12 21:31	1
Nitrobenzene-d5	63		30 - 115	11/27/12 16:58	12/06/12 21:31	1
2-Fluorobiphenyl	64		30 - 119	11/27/12 16:58	12/06/12 21:31	1
2,4,6-Tribromophenol	70		35 - 137	11/27/12 16:58	12/06/12 21:31	1
Terphenyl-d14	67		36 - 134	11/27/12 16:58	12/06/12 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Arsenic</b>	<b>3.1</b>		0.58	0.13	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Barium</b>	<b>17</b>		0.58	0.069	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Beryllium</b>	<b>0.43</b>		0.23	0.017	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Boron</b>	<b>6.0</b>		2.9	0.54	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Cadmium</b>	<b>0.34</b>		0.12	0.029	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Calcium</b>	<b>27000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Chromium</b>	<b>9.8</b>		0.58	0.097	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Cobalt</b>	<b>5.8</b>		0.29	0.031	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Copper</b>	<b>13</b>		0.58	0.16	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Iron</b>	<b>11000</b>		12	5.0	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Lead</b>	<b>9.0</b>		0.29	0.10	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Magnesium</b>	<b>15000</b>		5.8	1.1	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Manganese</b>	<b>190</b>		0.58	0.082	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Nickel</b>	<b>15</b>		0.58	0.13	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Potassium</b>	<b>1400</b>		29	3.3	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Sodium</b>	<b>240</b>	<b>B</b>	58	11	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Vanadium</b>	<b>14</b>		0.29	0.044	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1
<b>Zinc</b>	<b>34</b>		1.2	0.40	mg/Kg	☼	11/14/12 16:00	11/20/12 07:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 04:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 04:36	1
<b>Boron</b>	<b>1.3</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 04:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 04:36	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-4-B02-2**

**Lab Sample ID: 500-52302-7**

Date Collected: 11/13/12 08:50

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:36	1
<b>Cobalt</b>	<b>0.037</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:36	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:36	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 04:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 04:36	1
<b>Manganese</b>	<b>3.4</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:36	1
<b>Nickel</b>	<b>0.056</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:36	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 04:36	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:36	1
<b>Zinc</b>	<b>0.029 J</b>		0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/01/12 20:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000077</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:25	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0075	mg/Kg	☼	11/28/12 18:00	11/29/12 10:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.81</b>		0.200	0.200	SU			11/19/12 08:18	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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	Duplicate RPD exceeds the control limit
F	RPD of the MS and MSD exceeds the control limits
*	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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> 1/S 30
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: 708-634-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project No.: IDOT2011- 053
<b>Special Instructions:</b> See Table A 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
		Lab Job No.: 500-52302
		Sample Temp:
		COC No.: 1 of 4

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Date/Time	Received by:			
					VOCS	SVOCS	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals/ <del>Trace</del>	TCLP/SPLP Metals	pH	% Solids			Waste Characterization	Comments	
1	2034A-8-B01-1	11/13/12	7:30	S	X	X					X	X	X				0-5'	11/13/12 1530	Received by: <i>[Signature]</i>
2	2034A-8-B01-1 DUP		7:35	S													0-5'		
3	2034A-8-B01-2		7:40	S													5-10'		
4	2034A-5-B01-1		8:10	S													0-4'		
5	2034A-5-B01-2		8:20	S													4-8'		
6	2034A-4-B02-1		8:40	S													0-4'		
7	2034A-4-B02-2		8:50	S													4-8'		
8	2034A-4-B01-1		9:00	S													0-4'		
9	2034A-4-B01-1 DUP		9:10	S													0-4'		
10	2034A-4-B01-2		9:20	S													4-8'		
11	2034A-3-B05-1		9:30	S													0-4'		
12	2034A-3-B05-2		9:40	S													4-8'		

Relinquished by: <i>[Signature]</i>	Date/Time: 11/13/12 3:30	Received by: <i>[Signature]</i>	Date/Time: 11/13/12 1530
Relinquished by: <i>[Signature]</i>	Date/Time: 11/13/12 1615	Received by: <i>[Signature]</i>	Date/Time: 11/13/12 1615
Relinquished by: <i>[Signature]</i>	Date/Time:	Received by:	Date/Time:



December 11, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120027

Dear Colleen Grey:

TEKLAB, INC received 5 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120027

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	10
Receiving Check List	12
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120027

**Client Project:** IDOT2011-053

**Report Date:** 11-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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120027

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120027

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120027-004

Client Sample ID: 2034A-4-B02-1

Matrix: SOLID

Collection Date: 11/27/2013 10:10

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		0.127	mg/L	1	12/05/2013 15:10	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120027

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120027-005

Client Sample ID: 2034A-4-B02-2

Matrix: SOLID

Collection Date: 11/27/2013 10:15

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>0.0335</b>	mg/L	1	12/05/2013 15:13	94313



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> IL 30 Cook 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: <del>Jest America - Chicago</del> <b>Teklab</b> Address: <del>2447 Bond Street</del> <b>University Park, IL 60484</b> Phone: <del>708-534-5200</del> Contact: <del>Dick Wright</del> email: <del>dick.wright@jestamericainc.com</del>	Project No.: ID07 2011-053 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>CM</b>	Lab Job No.: 13/20027 Sample Temp: 5.0

**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	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization	Comments
13/20027	2034A-4-B01-1	11/27/13	10:00	S											X SPLP Mn/** TCLP Mn	
202	2034A-4-B01-1dup		10:00	S											X	
203	2034A-4-B01-2		10:05	S											X	
204	2034A-4-B02-1		10:10	S											X	
205	2034A-4-B02-2		10:15	S											X	
<b>Teklab, Inc.</b> <b>Courier Pick Up</b>																

Relinquished by:	Date/Time: 11/27/13 11:00pm	Received by:	Date/Time: 12/2/13 9:25
Relinquished by:	Date/Time: 11/27/13 12:20	Received by:	Date/Time: 12/2/13 12:20
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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21600 Block East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50228 Longitude: -87.53016  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.50228 Longitude: -87.53016

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 2034/A-5-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-5. SEE FIGURE 2 AND TABLE 5c 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: 500-52302. TEKLAB WORK ORDER NO.: 13120028.

**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))*

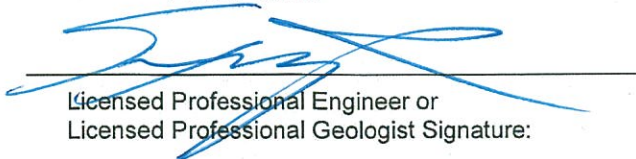
Company Name: IDOT Bureau of Design and Environment

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:

3/17/14  
Date:



L.P.G. Seal:

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

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,1,2-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 2034A-5**

**Vacant Lot**

Sample ID	2034A-5-B01-1	2034A-5-B01-2	<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	
Sample Depth (ft)	0-4	4-8							
Sample Date	11/13/2012	11/13/2012							
PID	90	83							
Sample pH	8.15	7.89							
Matrix	Soil	Soil							
Inorganic Compounds, Total (soil: mg/kg; water: mg/L)									
Arsenic	4.6	13	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: 500-52302-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/10/2012 4:58:26 PM

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 Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-1**

**Lab Sample ID: 500-52302-4**

**Date Collected: 11/13/12 08:10**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 89.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,1-Dichloroethene	<0.0042		0.0042	0.00067	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1
Xylenes, Total	<0.0083		0.0083	0.00038	mg/Kg	☼	11/13/12 08:10	11/16/12 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 08:10	11/16/12 13:44	1
Dibromofluoromethane	102		73 - 122	11/13/12 08:10	11/16/12 13:44	1
1,2-Dichloroethane-d4 (Surr)	99		74 - 123	11/13/12 08:10	11/16/12 13:44	1
Toluene-d8 (Surr)	97		72 - 122	11/13/12 08:10	11/16/12 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-1**

**Lab Sample ID: 500-52302-4**

**Date Collected: 11/13/12 08:10**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 89.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
<b>Fluoranthene</b>	<b>0.061</b>		0.036	0.015	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
<b>Pyrene</b>	<b>0.030</b>	<b>J</b>	0.036	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0076	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
<b>Chrysene</b>	<b>0.037</b>		0.036	0.0082	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-1**

**Lab Sample ID: 500-52302-4**

Date Collected: 11/13/12 08:10

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
<b>Benzo[a]pyrene</b>	<b>0.032</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.021</b>	<b>J</b>	0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
<b>Benzo[g,h,i]perylene</b>	<b>0.025</b>	<b>J</b>	0.036	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/27/12 16:58	12/06/12 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	47		30 - 110				11/27/12 16:58	12/06/12 20:30	1
Phenol-d5	56		31 - 110				11/27/12 16:58	12/06/12 20:30	1
Nitrobenzene-d5	52		30 - 115				11/27/12 16:58	12/06/12 20:30	1
2-Fluorobiphenyl	59		30 - 119				11/27/12 16:58	12/06/12 20:30	1
2,4,6-Tribromophenol	68		35 - 137				11/27/12 16:58	12/06/12 20:30	1
Terphenyl-d14	62		36 - 134				11/27/12 16:58	12/06/12 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Arsenic</b>	<b>4.6</b>		0.54	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Barium</b>	<b>65</b>		0.54	0.064	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Beryllium</b>	<b>0.57</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Boron</b>	<b>2.9</b>		2.7	0.50	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Cadmium</b>	<b>0.31</b>		0.11	0.027	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Calcium</b>	<b>4600</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Chromium</b>	<b>12</b>		0.54	0.090	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Cobalt</b>	<b>5.1</b>		0.27	0.028	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Copper</b>	<b>10</b>		0.54	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Iron</b>	<b>10000</b>		11	4.7	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Lead</b>	<b>24</b>		0.27	0.093	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Magnesium</b>	<b>3100</b>		5.4	1.0	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Manganese</b>	<b>75</b>		0.54	0.076	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Nickel</b>	<b>13</b>		0.54	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Potassium</b>	<b>580</b>		27	3.1	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Selenium</b>	<b>0.29</b>	<b>J</b>	0.54	0.16	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Sodium</b>	<b>550</b>	<b>B</b>	54	9.9	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Thallium</b>	<b>0.18</b>	<b>J</b>	0.54	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Vanadium</b>	<b>18</b>		0.27	0.041	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1
<b>Zinc</b>	<b>34</b>		1.1	0.37	mg/Kg	☼	11/14/12 16:00	11/20/12 07:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/28/12 04:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 04:18	1
<b>Boron</b>	<b>1.7</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 04:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 04:18	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-1**

**Lab Sample ID: 500-52302-4**

Date Collected: 11/13/12 08:10

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:18	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:18	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 04:18	1
<b>Lead</b>	<b>0.0076</b>		0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 04:18	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:18	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:18	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 04:18	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:18	1
<b>Zinc</b>	<b>0.024 J</b>		0.10	0.020	mg/L		11/19/12 15:30	11/28/12 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		11/19/12 15:30	12/01/12 20:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000087</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:20	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0070	mg/Kg	☼	11/28/12 18:00	11/29/12 10:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.15</b>		0.200	0.200	SU			11/19/12 08:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-2**

**Lab Sample ID: 500-52302-5**

Date Collected: 11/13/12 08:20

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0042	J	0.0044	0.0019	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Carbon tetrachloride	<0.0044		0.0044	0.00079	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	11/13/12 08:20	11/16/12 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/13/12 08:20	11/16/12 14:07	1
Dibromofluoromethane	105		73 - 122	11/13/12 08:20	11/16/12 14:07	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/13/12 08:20	11/16/12 14:07	1
Toluene-d8 (Surr)	95		72 - 122	11/13/12 08:20	11/16/12 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-2**

**Lab Sample ID: 500-52302-5**

Date Collected: 11/13/12 08:20

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Dibenzofuran	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
<b>Chrysene</b>	<b>0.0098</b>	<b>J</b>	0.038	0.0087	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-2**

**Lab Sample ID: 500-52302-5**

Date Collected: 11/13/12 08:20

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
<b>Benzo[a]pyrene</b>	<b>0.0080</b>	<b>J</b>	0.038	0.0071	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/27/12 16:58	12/06/12 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110				11/27/12 16:58	12/06/12 20:50	1
Phenol-d5	59		31 - 110				11/27/12 16:58	12/06/12 20:50	1
Nitrobenzene-d5	62		30 - 115				11/27/12 16:58	12/06/12 20:50	1
2-Fluorobiphenyl	62		30 - 119				11/27/12 16:58	12/06/12 20:50	1
2,4,6-Tribromophenol	63		35 - 137				11/27/12 16:58	12/06/12 20:50	1
Terphenyl-d14	64		36 - 134				11/27/12 16:58	12/06/12 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Arsenic</b>	<b>13</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Barium</b>	<b>38</b>		0.56	0.067	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Beryllium</b>	<b>0.50</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Boron</b>	<b>6.0</b>		2.8	0.52	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Cadmium</b>	<b>0.74</b>		0.11	0.028	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Calcium</b>	<b>33000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Chromium</b>	<b>12</b>		0.56	0.094	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Cobalt</b>	<b>12</b>		0.28	0.029	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Copper</b>	<b>14</b>		0.56	0.15	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Iron</b>	<b>22000</b>		11	4.9	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Lead</b>	<b>9.3</b>		0.28	0.096	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Magnesium</b>	<b>21000</b>		5.6	1.1	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Manganese</b>	<b>270</b>		0.56	0.079	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Nickel</b>	<b>25</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Potassium</b>	<b>1600</b>		28	3.2	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Selenium</b>	<b>0.21</b>	<b>J</b>	0.56	0.16	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Sodium</b>	<b>450</b>	<b>B</b>	56	10	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Vanadium</b>	<b>15</b>		0.28	0.043	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1
<b>Zinc</b>	<b>35</b>		1.1	0.38	mg/Kg	☼	11/14/12 16:00	11/20/12 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.52</b>		0.50	0.010	mg/L		11/19/12 15:30	11/28/12 04:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Boron</b>	<b>1.5</b>		0.50	0.050	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		11/19/12 15:30	11/28/12 04:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-5-B01-2**

**Lab Sample ID: 500-52302-5**

Date Collected: 11/13/12 08:20

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Cobalt</b>	<b>0.053</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Iron</b>	<b>2.5</b>		0.20	0.20	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Lead</b>	<b>0.0062</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Manganese</b>	<b>4.4</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Nickel</b>	<b>0.047</b>		0.025	0.010	mg/L		11/19/12 15:30	11/28/12 04:24	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/28/12 04:24	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/28/12 04:24	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/28/12 04:24	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		11/19/12 15:30	12/01/12 20:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000077</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 11:22	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0073	mg/Kg	☆	11/28/12 18:00	11/29/12 10:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.89</b>		0.200	0.200	SU			11/19/12 08:11	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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	Duplicate RPD exceeds the control limit
F	RPD of the MS and MSD exceeds the control limits
*	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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13





# 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> 1/5 30 <b>Project No.:</b> IDOT2011- 053 <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> SR/cm	<b>COC No.:</b> 4 of 4 <b>Lab Job No.:</b> 500-52302 <b>Sample Temp.:</b>
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Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals/ <del>Metals</del>	TCLP/SPL Metals	pH	% Solids		Waste Characterization	
1	2034A-8-B01-1	11/13/12	7:30	S	X							X	X	X			0-5'
2	2034A-8-B01-1 DUP		7:35	S													0-5'
3	2034A-8-B01-2		7:40	S													5-10'
4	2034A-5-B01-1		8:10	S													0-4'
5	2034A-5-B01-2		8:20	S													4-8'
6	2034A-4-B02-1		8:40	S													0-4'
7	2034A-4-B02-2		8:50	S													4-8'
8	2034A-4-B01-1		9:00	S													0-4'
9	2034A-4-B01-1 DUP		9:10	S													0-4'
10	2034A-4-B01-2		9:20	S													4-8'
11	2034A-3-B05-1		9:30	S													0-4'
12	2034A-3-B05-2		9:40	S													4-8'
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time	
					11/13/12 3:30											11/13/12 15:30	
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time	
					11/13/12 16:15											11/13/12 16:15	
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time	

**Special Instructions:**  
See Table A 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:** IDOT2011-053

**WorkOrder:** 13120028

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120028

**Client Project:** IDOT2011-053

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

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	7
Receiving Check List	8
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120028

**Client Project:** IDOT2011-053

**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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120028

**Client Project:** IDOT2011-053

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

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120028

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120028-001

Client Sample ID: 2034A-5-B01-1

Matrix: SOLID

Collection Date: 11/27/2013 10:05

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	0.0016	0.005		<b>0.0343</b>	mg/L	1	12/05/2013 15:24	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120028

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120028-002

Client Sample ID: 2034A-5-B01-2

Matrix: SOLID

Collection Date: 11/27/2013 10:10

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		0.124	mg/L	1	12/05/2013 15:28	94313



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: ~~Feet America - Chicago~~ **TekLab**  
 Address: ~~2417 Bond Street~~  
 University Park, IL 60484  
 Phone: ~~708-534-5200~~  
 Contact: ~~Dick Wright~~  
 email: richard.wright@testamericainc.com

Project Name: IL 30 Cook Co  
 Project No.: ID07 2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other  
 Sampler: GR

COC No.: 1 of 1  
 Lab Job No.: 13120028  
 Sample Temp: 5.0 °C  
 Matrix Key:  
 W: Water  
 S: Soil  
 SL: Sludge  
 S: Sediment  
 L: Leachate  
 DW: Drinking Water  
 OL: Oil  
 O: Other

**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			
13120028-201	2034A-5-B01-1	11/27/13	10:05	S														0-4
202	2034A-5-B01-2	"	10:10	S														4-8

**Received by:** [Signature] **Date/Time:** 11/27/13 4:00pm

**Received by:** [Signature] **Date/Time:** 12/2/13 12:20

**Received by:** [Signature] **Date/Time:** 12/13/13 12:00

TekLab, Inc.  
 Courier Pick Up





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 353 (US Route 30) Office Phone Number, if available:

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

21755 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50016 Longitude: -87.52878
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)Latitude: 41.50016 Longitude: -87.52878Uncontaminated 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 2034/A-6-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-6. SEE FIGURE 2 AND TABLE 5d 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: 500-52267. TEKLAB WORK ORDER NO.: 13120029.


**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:

3/17/14

Date:



L.P.G. Seal:

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

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,1,2-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 2034A-6

Alpine Village

Sample ID	2034A-6-B01-1	2034A-6-B01-1 DUP	2034A-6-B01-2	2034A-6-B02-1	2034A-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)	0-4	0-4	4-8	0-4	4-8											
Sample Date	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012											
PID	0	0	0	0	0											
Sample pH	8.23	8.19	8.09	7.91	8.18											
Matrix	Soil	Soil	Soil	Soil	Soil											
Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)																
Benzo (a) pyrene	J 0.015		0.044		ND		J 0.037		0.22	1,2	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: 500-52267-1  
Client Project/Site: IDOT - US Route 30 - WO 053

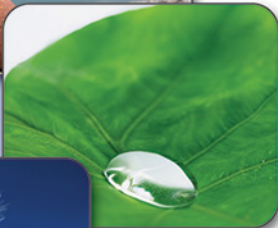
For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
12/6/2012 4:13:57 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 Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-1**

**Lab Sample ID: 500-52267-13**

Date Collected: 11/12/12 12:00

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.023</b>		0.0046	0.0020	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Bromodichloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
<b>2-Butanone (MEK)</b>	<b>0.0047</b>		0.0046	0.0017	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00061	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,1-Dichloroethene	<0.0046		0.0046	0.00075	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00061	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Styrene	<0.0046		0.0046	0.00061	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Tetrachloroethene	<0.0046		0.0046	0.00071	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Toluene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	11/12/12 12:00	11/16/12 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		76 - 120	11/12/12 12:00	11/16/12 04:38	1
Dibromofluoromethane	101		73 - 122	11/12/12 12:00	11/16/12 04:38	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/12/12 12:00	11/16/12 04:38	1
Toluene-d8 (Surr)	101		72 - 122	11/12/12 12:00	11/16/12 04:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-1**

**Lab Sample ID: 500-52267-13**

**Date Collected: 11/12/12 12:00**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 80.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Phenanthrene</b>	<b>0.076</b>		0.040	0.017	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Anthracene</b>	<b>0.013 J</b>		0.040	0.0094	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Fluoranthene</b>	<b>0.14</b>		0.040	0.016	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Pyrene</b>	<b>0.095</b>		0.040	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Benzo[a]anthracene</b>	<b>0.039 J</b>		0.040	0.0084	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Chrysene</b>	<b>0.043</b>		0.040	0.0090	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-1**

**Lab Sample ID: 500-52267-13**

Date Collected: 11/12/12 12:00

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Benzo[b]fluoranthene</b>	<b>0.041</b>		0.040	0.0078	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Benzo[k]fluoranthene</b>	<b>0.031 J</b>		0.040	0.0095	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Benzo[a]pyrene</b>	<b>0.037 J</b>		0.040	0.0073	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.023 J</b>		0.040	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Benzo[g,h,i]perylene</b>	<b>0.034 J</b>		0.040	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/26/12 07:16	12/06/12 00:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	68		30 - 110				11/26/12 07:16	12/06/12 00:36	1
Phenol-d5	60		31 - 110				11/26/12 07:16	12/06/12 00:36	1
Nitrobenzene-d5	76		30 - 115				11/26/12 07:16	12/06/12 00:36	1
2-Fluorobiphenyl	76		30 - 119				11/26/12 07:16	12/06/12 00:36	1
2,4,6-Tribromophenol	94		35 - 137				11/26/12 07:16	12/06/12 00:36	1
Terphenyl-d14	80		36 - 134				11/26/12 07:16	12/06/12 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Arsenic</b>	<b>3.8</b>		0.58	0.13	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Barium</b>	<b>120</b>		0.58	0.069	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Beryllium</b>	<b>0.95</b>		0.23	0.017	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Boron</b>	<b>7.5</b>		2.9	0.54	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Cadmium</b>	<b>0.41</b>		0.12	0.029	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Calcium</b>	<b>3600 B</b>		12	2.0	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Chromium</b>	<b>23</b>		0.58	0.097	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Cobalt</b>	<b>8.1</b>		0.29	0.030	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Copper</b>	<b>16</b>		0.58	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Iron</b>	<b>19000</b>		12	5.0	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Lead</b>	<b>11 B</b>		0.29	0.10	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Magnesium</b>	<b>5300 B</b>		5.8	1.1	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Manganese</b>	<b>170</b>		0.58	0.082	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Nickel</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Potassium</b>	<b>1800</b>		29	3.3	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Sodium</b>	<b>330 B</b>		58	11	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Thallium</b>	<b>0.31 J</b>		0.58	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Vanadium</b>	<b>23</b>		0.29	0.044	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1
<b>Zinc</b>	<b>51</b>		1.2	0.40	mg/Kg	☼	11/13/12 09:20	11/20/12 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.32 J</b>		0.50	0.010	mg/L		11/19/12 15:30	11/27/12 21:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 21:11	1
<b>Boron</b>	<b>1.1</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 21:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 21:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-1**

**Lab Sample ID: 500-52267-13**

Date Collected: 11/12/12 12:00

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:11	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:11	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:11	1
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 21:11	1
<b>Lead</b>	<b>0.0075</b>		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 21:11	1
<b>Manganese</b>	<b>2.8</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:11	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:11	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 21:11	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:11	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 21:11	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		11/19/12 15:30	12/01/12 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000076</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 12:52	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.025</b>		0.020	0.0076	mg/Kg	☆	11/27/12 17:00	11/28/12 14:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.91</b>		0.200	0.200	SU			11/17/12 10:09	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-2**

**Lab Sample ID: 500-52267-14**

Date Collected: 11/12/12 12:15

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0060		0.0044	0.0019	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	11/12/12 12:15	11/16/12 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/12/12 12:15	11/16/12 05:00	1
Dibromofluoromethane	105		73 - 122	11/12/12 12:15	11/16/12 05:00	1
1,2-Dichloroethane-d4 (Surr)	98		74 - 123	11/12/12 12:15	11/16/12 05:00	1
Toluene-d8 (Surr)	98		72 - 122	11/12/12 12:15	11/16/12 05:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-2**

**Lab Sample ID: 500-52267-14**

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

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 88.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Naphthalene</b>	<b>0.019</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Acenaphthene</b>	<b>0.063</b>		0.037	0.011	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Fluorene</b>	<b>0.070</b>		0.037	0.0085	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Phenanthrene</b>	<b>0.48</b>		0.037	0.016	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Anthracene</b>	<b>0.076</b>		0.037	0.0088	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Carbazole</b>	<b>0.054</b>	<b>J</b>	0.19	0.053	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Fluoranthene</b>	<b>0.82</b>		0.037	0.015	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Pyrene</b>	<b>0.68</b>		0.037	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Benzo[a]anthracene</b>	<b>0.22</b>		0.037	0.0079	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Chrysene</b>	<b>0.27</b>		0.037	0.0085	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-2**

**Lab Sample ID: 500-52267-14**

Date Collected: 11/12/12 12:15

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.10</b>	<b>J</b>	0.19	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.26</b>		0.037	0.0073	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Benzo[k]fluoranthene</b>	<b>0.20</b>		0.037	0.0089	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Benzo[a]pyrene</b>	<b>0.22</b>		0.037	0.0068	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.13</b>		0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Dibenz(a,h)anthracene</b>	<b>0.023</b>	<b>J</b>	0.037	0.010	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Benzo[g,h,i]perylene</b>	<b>0.18</b>		0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/26/12 07:16	12/06/12 00:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	52		30 - 110				11/26/12 07:16	12/06/12 00:57	1
Phenol-d5	48		31 - 110				11/26/12 07:16	12/06/12 00:57	1
Nitrobenzene-d5	53		30 - 115				11/26/12 07:16	12/06/12 00:57	1
2-Fluorobiphenyl	61		30 - 119				11/26/12 07:16	12/06/12 00:57	1
2,4,6-Tribromophenol	65		35 - 137				11/26/12 07:16	12/06/12 00:57	1
Terphenyl-d14	59		36 - 134				11/26/12 07:16	12/06/12 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Arsenic</b>	<b>2.8</b>		0.51	0.11	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Barium</b>	<b>14</b>		0.51	0.061	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Beryllium</b>	<b>0.31</b>		0.21	0.015	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Boron</b>	<b>5.7</b>		2.6	0.48	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Cadmium</b>	<b>0.26</b>		0.10	0.025	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Calcium</b>	<b>22000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Chromium</b>	<b>6.1</b>		0.51	0.086	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Cobalt</b>	<b>4.8</b>		0.26	0.027	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Copper</b>	<b>23</b>		0.51	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Iron</b>	<b>8700</b>		10	4.5	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Lead</b>	<b>8.6</b>	<b>B</b>	0.26	0.088	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Magnesium</b>	<b>12000</b>	<b>B</b>	5.1	1.0	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Manganese</b>	<b>280</b>		0.51	0.072	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Nickel</b>	<b>13</b>		0.51	0.11	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Potassium</b>	<b>1100</b>		26	2.9	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Sodium</b>	<b>140</b>	<b>B</b>	51	9.4	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Thallium</b>	<b>0.14</b>	<b>J</b>	0.51	0.13	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Vanadium</b>	<b>9.5</b>		0.26	0.039	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1
<b>Zinc</b>	<b>21</b>		1.0	0.35	mg/Kg	☼	11/13/12 09:20	11/20/12 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 21:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 21:18	1
<b>Boron</b>	<b>0.85</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 21:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 21:18	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B02-2**

**Lab Sample ID: 500-52267-14**

Date Collected: 11/12/12 12:15

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:18	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:18	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:18	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 21:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 21:18	1
<b>Manganese</b>	<b>7.6</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:18	1
<b>Nickel</b>	<b>0.029</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:18	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 21:18	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:18	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 21:18	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		11/19/12 15:30	12/01/12 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000080</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 12:53	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.017</b>	<b>J</b>	0.018	0.0069	mg/Kg	☼	11/27/12 17:00	11/28/12 14:27	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			11/17/12 10:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1**

**Lab Sample ID: 500-52267-19**

Date Collected: 11/12/12 13:10

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0047	0.0020	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1
Xylenes, Total	<0.0094		0.0094	0.00042	mg/Kg	☼	11/12/12 13:10	11/16/12 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/12/12 13:10	11/16/12 06:54	1
Dibromofluoromethane	101		73 - 122	11/12/12 13:10	11/16/12 06:54	1
1,2-Dichloroethane-d4 (Surr)	101		74 - 123	11/12/12 13:10	11/16/12 06:54	1
Toluene-d8 (Surr)	96		72 - 122	11/12/12 13:10	11/16/12 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1**

**Lab Sample ID: 500-52267-19**

**Date Collected: 11/12/12 13:10**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 86.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Phenanthrene</b>	<b>0.016</b>	<b>J</b>	0.036	0.015	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Fluoranthene</b>	<b>0.034</b>	<b>J</b>	0.036	0.015	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Pyrene</b>	<b>0.020</b>	<b>J</b>	0.036	0.013	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Benzo[a]anthracene</b>	<b>0.017</b>	<b>J</b>	0.036	0.0076	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Chrysene</b>	<b>0.020</b>	<b>J</b>	0.036	0.0082	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1**

**Lab Sample ID: 500-52267-19**

Date Collected: 11/12/12 13:10

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Benzo[b]fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0070	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Benzo[a]pyrene</b>	<b>0.015</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
<b>Benzo[g,h,i]perylene</b>	<b>0.017</b>	<b>J</b>	0.036	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/26/12 07:16	12/06/12 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110	11/26/12 07:16	12/06/12 02:42	1
Phenol-d5	55		31 - 110	11/26/12 07:16	12/06/12 02:42	1
Nitrobenzene-d5	67		30 - 115	11/26/12 07:16	12/06/12 02:42	1
2-Fluorobiphenyl	70		30 - 119	11/26/12 07:16	12/06/12 02:42	1
2,4,6-Tribromophenol	90		35 - 137	11/26/12 07:16	12/06/12 02:42	1
Terphenyl-d14	71		36 - 134	11/26/12 07:16	12/06/12 02:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Arsenic</b>	<b>5.3</b>		0.57	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Barium</b>	<b>47</b>		0.57	0.068	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Beryllium</b>	<b>0.48</b>		0.23	0.017	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Boron</b>	<b>7.2</b>		2.9	0.53	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Cadmium</b>	<b>0.43</b>		0.11	0.028	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Calcium</b>	<b>35000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Chromium</b>	<b>9.9</b>		0.57	0.095	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Cobalt</b>	<b>5.6</b>		0.29	0.030	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Copper</b>	<b>11</b>		0.57	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Iron</b>	<b>9900</b>		11	5.0	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Lead</b>	<b>15</b>	<b>B</b>	0.29	0.098	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Manganese</b>	<b>260</b>		0.57	0.081	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Nickel</b>	<b>12</b>		0.57	0.13	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Potassium</b>	<b>1100</b>		29	3.2	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Sodium</b>	<b>170</b>	<b>B</b>	57	10	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1
<b>Zinc</b>	<b>38</b>		1.1	0.39	mg/Kg	☼	11/13/12 09:20	11/20/12 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 22:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 22:03	1
<b>Boron</b>	<b>2.5</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 22:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 22:03	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1**

**Lab Sample ID: 500-52267-19**

Date Collected: 11/12/12 13:10

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:03	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 22:03	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:03	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 22:03	1
<b>Lead</b>	<b>0.0055</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 22:03	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:03	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:03	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 22:03	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 22:03	1
<b>Zinc</b>	<b>0.039</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 22:03	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		11/19/12 15:30	12/01/12 19:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000076</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:06	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.017</b>		0.017	0.0067	mg/Kg	☆	11/27/12 17:00	11/28/12 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.23</b>		0.200	0.200	SU			11/17/12 10:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-2**

**Lab Sample ID: 500-52267-20**

**Date Collected: 11/12/12 13:20**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 80.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.24		0.24	0.063	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Benzene	<0.012		0.012	0.0036	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Bromodichloromethane	<0.097		0.097	0.016	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Bromoform	<0.097		0.097	0.021	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Bromomethane	<0.097		0.097	0.033	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
2-Butanone (MEK)	<0.24		0.24	0.071	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Carbon disulfide	<0.24		0.24	0.021	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Carbon tetrachloride	<0.049		0.049	0.012	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Chlorobenzene	<0.049		0.049	0.0069	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Chloroethane	<0.097		0.097	0.021	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Chloroform	<0.049		0.049	0.010	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Chloromethane	<0.097		0.097	0.022	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
cis-1,2-Dichloroethene	<0.049		0.049	0.0060	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
cis-1,3-Dichloropropene	<0.049		0.049	0.0086	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Dibromochloromethane	<0.097		0.097	0.017	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,1-Dichloroethane	<0.049		0.049	0.0090	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,2-Dichloroethane	<0.049		0.049	0.014	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,1-Dichloroethene	<0.049		0.049	0.015	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,2-Dichloropropane	<0.049		0.049	0.0095	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,3-Dichloropropene, Total	<0.049		0.049	0.0086	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Ethylbenzene	<0.012		0.012	0.0061	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
2-Hexanone	<0.24		0.24	0.027	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Methylene Chloride	<0.24		0.24	0.033	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
4-Methyl-2-pentanone (MIBK)	<0.24		0.24	0.016	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Methyl tert-butyl ether	<0.097		0.097	0.021	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Styrene	<0.049		0.049	0.0048	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,1,1,2-Tetrachloroethane	<0.049		0.049	0.011	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Tetrachloroethene	<0.049		0.049	0.0081	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Toluene	<0.012		0.012	0.0056	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
trans-1,2-Dichloroethene	<0.049		0.049	0.012	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
trans-1,3-Dichloropropene	<0.049		0.049	0.010	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,1,1-Trichloroethane	<0.049		0.049	0.0098	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
1,1,2-Trichloroethane	<0.049		0.049	0.014	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Trichloroethene	<0.024		0.024	0.0090	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Vinyl chloride	<0.012		0.012	0.0051	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50
Xylenes, Total	<0.024		0.024	0.0033	mg/Kg	☼	11/12/12 13:20	11/21/12 10:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		79 - 120	11/12/12 13:20	11/21/12 10:02	50
Dibromofluoromethane	105		74 - 123	11/12/12 13:20	11/21/12 10:02	50
1,2-Dichloroethane-d4 (Surr)	111		75 - 131	11/12/12 13:20	11/21/12 10:02	50
Toluene-d8 (Surr)	100		80 - 120	11/12/12 13:20	11/21/12 10:02	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-2**

**Lab Sample ID: 500-52267-20**

Date Collected: 11/12/12 13:20

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.040	0.0091	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-2**

**Lab Sample ID: 500-52267-20**

Date Collected: 11/12/12 13:20

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Benzo[b]fluoranthene	<0.040		0.040	0.0078	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Benzo[a]pyrene	<0.040		0.040	0.0073	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
<b>Benzo[g,h,i]perylene</b>	<b>0.018</b>	<b>J</b>	0.040	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/26/12 07:16	12/06/12 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		30 - 110	11/26/12 07:16	12/06/12 13:52	1
Phenol-d5	74		31 - 110	11/26/12 07:16	12/06/12 13:52	1
Nitrobenzene-d5	74		30 - 115	11/26/12 07:16	12/06/12 13:52	1
2-Fluorobiphenyl	74		30 - 119	11/26/12 07:16	12/06/12 13:52	1
2,4,6-Tribromophenol	72		35 - 137	11/26/12 07:16	12/06/12 13:52	1
Terphenyl-d14	85		36 - 134	11/26/12 07:16	12/06/12 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Arsenic</b>	<b>9.1</b>		0.57	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Barium</b>	<b>45</b>		0.57	0.068	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Beryllium</b>	<b>0.73</b>		0.23	0.017	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Boron</b>	<b>13</b>		2.8	0.53	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Cadmium</b>	<b>0.71</b>		0.11	0.028	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Calcium</b>	<b>42000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Chromium</b>	<b>18</b>		0.57	0.095	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Cobalt</b>	<b>10</b>		0.28	0.030	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Copper</b>	<b>20</b>		0.57	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Iron</b>	<b>19000</b>		11	4.9	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Lead</b>	<b>11</b>	<b>B</b>	0.28	0.098	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Magnesium</b>	<b>22000</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Manganese</b>	<b>430</b>		0.57	0.080	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Nickel</b>	<b>28</b>		0.57	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Potassium</b>	<b>3000</b>		28	3.2	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Sodium</b>	<b>250</b>	<b>B</b>	57	10	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Vanadium</b>	<b>20</b>		0.28	0.043	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1
<b>Zinc</b>	<b>49</b>		1.1	0.39	mg/Kg	☼	11/13/12 09:20	11/20/12 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.56</b>		0.50	0.010	mg/L		11/19/12 15:30	11/27/12 22:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 22:10	1
<b>Boron</b>	<b>2.6</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 22:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 22:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-2**

**Lab Sample ID: 500-52267-20**

Date Collected: 11/12/12 13:20

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:10	1
<b>Cobalt</b>	<b>0.025</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 22:10	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:10	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 22:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 22:10	1
<b>Manganese</b>	<b>5.2</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:10	1
<b>Nickel</b>	<b>0.064</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 22:10	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 22:10	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 22:10	1
<b>Zinc</b>	<b>0.090</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 22:10	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		11/19/12 15:30	12/01/12 19:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000072</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:08	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.016</b>	<b>J</b>	0.018	0.0069	mg/Kg	☼	11/27/12 17:00	11/28/12 14:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.09</b>		0.200	0.200	SU			11/17/12 10:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1-DUP**

**Lab Sample ID: 500-52267-21**

Date Collected: 11/12/12 13:15

Matrix: Solid

Date Received: 11/13/12 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	0.015		0.0052	0.0022	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Bromodichloromethane	<0.0052		0.0052	0.00089	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Carbon disulfide	<0.0052		0.0052	0.00077	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Carbon tetrachloride	<0.0052		0.0052	0.00094	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Chlorobenzene	<0.0052		0.0052	0.00052	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Chloroform	<0.0052		0.0052	0.00059	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,2-Dichloroethane	<0.0052		0.0052	0.00076	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,1-Dichloroethene	<0.0052		0.0052	0.00083	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,2-Dichloropropane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Ethylbenzene	<0.0052		0.0052	0.0010	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00085	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0010	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Toluene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00092	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00070	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Trichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/12/12 13:15	11/16/12 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/12/12 13:15	11/16/12 07:40	1
Dibromofluoromethane	103		73 - 122	11/12/12 13:15	11/16/12 07:40	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/12/12 13:15	11/16/12 07:40	1
Toluene-d8 (Surr)	100		72 - 122	11/12/12 13:15	11/16/12 07:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1-DUP**

**Lab Sample ID: 500-52267-21**

Date Collected: 11/12/12 13:15

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Naphthalene</b>	<b>0.011</b>	<b>J</b>	0.040	0.0077	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.061	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Phenanthrene</b>	<b>0.037</b>	<b>J</b>	0.040	0.017	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Fluoranthene</b>	<b>0.093</b>		0.040	0.016	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Pyrene</b>	<b>0.072</b>		0.040	0.014	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Benzo[a]anthracene</b>	<b>0.039</b>	<b>J</b>	0.040	0.0084	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Chrysene</b>	<b>0.061</b>		0.040	0.0091	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1-DUP**

**Lab Sample ID: 500-52267-21**

Date Collected: 11/12/12 13:15

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Benzo[b]fluoranthene</b>	<b>0.065</b>		0.040	0.0078	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Benzo[k]fluoranthene</b>	<b>0.031</b>	J	0.040	0.0096	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Benzo[a]pyrene</b>	<b>0.044</b>		0.040	0.0073	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.030</b>	J	0.040	0.014	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
<b>Benzo[g,h,i]perylene</b>	<b>0.044</b>		0.040	0.014	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/26/12 07:20	12/06/12 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110	11/26/12 07:20	12/06/12 03:24	1
Phenol-d5	62		31 - 110	11/26/12 07:20	12/06/12 03:24	1
Nitrobenzene-d5	74		30 - 115	11/26/12 07:20	12/06/12 03:24	1
2-Fluorobiphenyl	80		30 - 119	11/26/12 07:20	12/06/12 03:24	1
2,4,6-Tribromophenol	99		35 - 137	11/26/12 07:20	12/06/12 03:24	1
Terphenyl-d14	83		36 - 134	11/26/12 07:20	12/06/12 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.32</b>	J	1.2	0.16	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Arsenic</b>	<b>4.4</b>		0.62	0.13	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Barium</b>	<b>62</b>		0.62	0.073	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Beryllium</b>	<b>0.56</b>		0.25	0.018	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Boron</b>	<b>4.2</b>		3.1	0.57	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Cadmium</b>	<b>0.32</b>		0.12	0.030	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Calcium</b>	<b>7000</b>	B	12	2.2	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Chromium</b>	<b>12</b>		0.62	0.10	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Cobalt</b>	<b>5.3</b>		0.31	0.032	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Copper</b>	<b>18</b>		0.62	0.17	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Iron</b>	<b>11000</b>		12	5.3	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Lead</b>	<b>28</b>		0.31	0.11	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Magnesium</b>	<b>4400</b>		6.2	1.2	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Manganese</b>	<b>120</b>		0.62	0.087	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Nickel</b>	<b>15</b>		0.62	0.13	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Potassium</b>	<b>930</b>	B	31	3.5	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Selenium</b>	<b>0.65</b>		0.62	0.18	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Sodium</b>	<b>89</b>	B	62	11	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
Thallium	<0.62		0.62	0.16	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Vanadium</b>	<b>17</b>		0.31	0.047	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1
<b>Zinc</b>	<b>55</b>		1.2	0.42	mg/Kg	☼	11/14/12 08:30	11/15/12 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.37</b>	J	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 06:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 06:05	1
<b>Boron</b>	<b>1.7</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 06:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 06:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-6-B01-1-DUP**

**Lab Sample ID: 500-52267-21**

Date Collected: 11/12/12 13:15

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:05	1
<b>Cobalt</b>	<b>0.0071</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 06:05	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:05	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 06:05	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 06:05	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:05	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:05	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 06:05	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 06:05	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 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		11/19/12 15:30	12/01/12 20:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000073</b>	<b>J B ^ *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:22	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0077	mg/Kg	☼	11/21/12 18:30	11/26/12 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.19</b>		0.200	0.200	SU			11/17/12 10:35	1

# Lab Chronicle

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B04-1**

**Lab Sample ID: 500-52267-24**

**Date Collected: 11/12/12 14:35**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	170124	(Start) 11/17/12 10:43 (End) 11/17/12 10:45	APW	TAL CHI

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>US 30</u>	<b>COC No.:</b> <u>2 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: <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>IDOT2011-053</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>500-52267</u>
<b>Special Instructions:</b> See Table 2 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Analyses</b>	Sample Temp:

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids		Waste Characterization	
13	2034A-G-B02-1	11/12/12	12:00	S	X	X						X	X	X	X		0-4'
14	2034A-G-B02-2		12:15														4-8'
15	2034A-G-B04-1		12:30														0-5'
16	2034A-11-B04-2		12:45														5-10'
17	2034A-6-B04-1		12:55														0-4'
18	2034A-6-B04-2		1:00														4-8'
19	2034A-6-B01-1		1:10														0-4'
20	2034A-6-B01-2		1:20														4-8'
21	2034A-6-B01-1-DUP		1:15														0-4'
22	2034A-8-B05-1		2:25														0-5'
23	2034A-8-B05-2		2:30														5-10'
24	2034A-8-B04-1		2:35														0-5'
Relinquished by: <i>[Signature]</i>		Date/Time: 11/12/12/1530		Received by: <i>[Signature]</i>		Date/Time: 11/12/12/1538											
Relinquished by: <i>[Signature]</i>		Date/Time: 11/12/12/1417		Received by: <i>[Signature]</i>		Date/Time: 11/13/12 0700											
Relinquished by:		Date/Time:		Received by:		Date/Time:											

December 11, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120029

Dear Colleen Grey:

TEKLAB, INC received 7 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120029

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	12
Receiving Check List	14
Chain of Custody	Appended



**Client:** Andrews Engineering, Inc.

**Work Order:** 13120029

**Client Project:** IDOT2011-053

**Report Date:** 11-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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120029

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120029

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120029-001

Client Sample ID: 2034A-6-B01-1

Matrix: SOLID

Collection Date: 11/27/2013 8:40

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>0.0743</b>	mg/L	1	12/05/2013 15:32	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.  
Client Project: IDOT2011-053  
Lab ID: 13120029-002  
Matrix: SOLID

Work Order: 13120029  
Report Date: 11-Dec-13  
Client Sample ID: 2034A-6-B01-1 DUP  
Collection Date: 11/27/2013 8:40

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>0.0288</b>	mg/L	1	12/05/2013 15:35	94313



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120029

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120029-003

Client Sample ID: 2034A-6-B01-2

Matrix: SOLID

Collection Date: 11/27/2013 8:45

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>0.0851</b>	mg/L	1	12/05/2013 16:31	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120029

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120029-004

Client Sample ID: 2034A-6-B02-1

Matrix: SOLID

Collection Date: 11/27/2013 9:15

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		0.13	mg/L	1	12/05/2013 16:34	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120029

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120029-005

Client Sample ID: 2034A-6-B02-2

Matrix: SOLID

Collection Date: 11/27/2013 9:20

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		<b>0.0487</b>	mg/L	1	12/05/2013 16:38	94314



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>IL 30 Cook 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: <u>Teklab</u> Address: <u>2447 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-5345200</u> Contact: <u>Dick Wright</u> email: <u>dickwright@tekamerica.com</u>	<b>Project No.:</b> <u>IDOT 2011-053</u>	<b>Lab Job No.:</b> <u>13120029</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>Sample Temp:</b> <u>5.0°C ice</u>
		<b>Sampler:</b> <u>STR</u>	<b>Matrix Key:</b> W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other

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					
1312-0029-001	A034A-6-B01-1	11/27/13	8:40	S														X	0-4	
002	A034A-6-B01-1 DUP		8:40	S														X	0-4	
003	A034A-6-B01-2		8:45	S														X	4-8	
004	A034A-6-B02-1		9:15	S														X	0-4	
005	A034A-6-B02-2		9:20	S														X	4-8	
006	A034A-6-B04-1		8:55	S														X	0-4	
007	A034A-6-B04-2		9:06	S														X	4-8	

<b>Relinquished by:</b>	<b>Date/Time:</b> <u>11/27/13 4:00am</u>	<b>Received by:</b>	<b>Date/Time:</b> <u>12/13 9:25</u>
<b>Relinquished by:</b>	<b>Date/Time:</b> <u>12/13 12:20</u>	<b>Received by:</b>	<b>Date/Time:</b> <u>12/13 12:20</u>
<b>Relinquished by:</b>	<b>Date/Time:</b> <u>12/13 12:20</u>	<b>Received by:</b>	<b>Date/Time:</b> <u>12/13 12:20</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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21644 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50193 Longitude: -87.53020  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.50193 Longitude: -87.53020

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 2034/A-7-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-7. SEE FIGURE 2 AND TABLE 5e 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: 500-52302. TEKLAB WORK ORDER NO.: 13120030.

**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))*

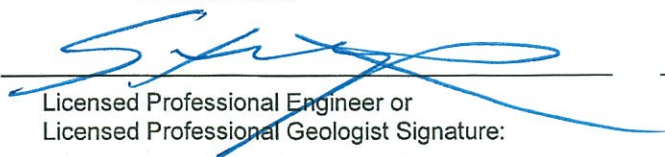
Company Name: IDOT Bureau of Design and Environment

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:

3/17/14  
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
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 2034A-7**

**Lightning Motors**

<b>Sample ID</b>	2034A-7-B01-1	2034A-7-B01-2	<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
<b>Sample Depth (ft)</b>	0-4	4-8						
<b>Sample Date</b>	11/13/2012	11/13/2012						
<b>PID</b>	0	0						
<b>Sample pH</b>	8.07	7.94						
<b>Matrix</b>	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: 500-52302-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/10/2012 4:58:26 PM

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 Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-1**

**Lab Sample ID: 500-52302-26**

Date Collected: 11/13/12 12:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0041	J	0.0042	0.0018	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	11/13/12 12:40	11/16/12 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 12:40	11/16/12 20:35	1
Dibromofluoromethane	104		73 - 122	11/13/12 12:40	11/16/12 20:35	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/13/12 12:40	11/16/12 20:35	1
Toluene-d8 (Surr)	100		72 - 122	11/13/12 12:40	11/16/12 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-1**

**Lab Sample ID: 500-52302-26**

**Date Collected: 11/13/12 12:40**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-1**

**Lab Sample ID: 500-52302-26**

Date Collected: 11/13/12 12:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
<b>Benzo[b]fluoranthene</b>	<b>0.0074</b>	<b>J</b>	0.035	0.0069	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Benzo[k]fluoranthene	<0.035		0.035	0.0085	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
<b>Benzo[a]pyrene</b>	<b>0.0084</b>	<b>J</b>	0.035	0.0065	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/27/12 17:43	12/06/12 22:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	57		30 - 110				11/27/12 17:43	12/06/12 22:02	1
Phenol-d5	47		31 - 110				11/27/12 17:43	12/06/12 22:02	1
Nitrobenzene-d5	47		30 - 115				11/27/12 17:43	12/06/12 22:02	1
2-Fluorobiphenyl	66		30 - 119				11/27/12 17:43	12/06/12 22:02	1
2,4,6-Tribromophenol	76		35 - 137				11/27/12 17:43	12/06/12 22:02	1
Terphenyl-d14	69		36 - 134				11/27/12 17:43	12/06/12 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Arsenic</b>	<b>2.7</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Barium</b>	<b>57</b>		0.55	0.065	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Beryllium</b>	<b>0.37</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Boron</b>	<b>2.7</b>		2.7	0.51	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Cadmium</b>	<b>0.067</b>	<b>J</b>	0.11	0.027	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Calcium</b>	<b>5700</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Chromium</b>	<b>8.0</b>		0.55	0.092	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Cobalt</b>	<b>3.5</b>		0.27	0.029	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Copper</b>	<b>4.3</b>		0.55	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Iron</b>	<b>6800</b>		11	4.8	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Lead</b>	<b>6.3</b>		0.27	0.094	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Magnesium</b>	<b>3800</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Manganese</b>	<b>40</b>		0.55	0.077	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Nickel</b>	<b>8.5</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Potassium</b>	<b>480</b>		27	3.1	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Sodium</b>	<b>230</b>	<b>B</b>	55	10	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Thallium</b>	<b>0.17</b>	<b>J</b>	0.55	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Vanadium</b>	<b>11</b>		0.27	0.042	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1
<b>Zinc</b>	<b>18</b>		1.1	0.38	mg/Kg	☼	11/14/12 16:00	11/21/12 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 07:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 07:10	1
<b>Boron</b>	<b>0.97</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 07:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 07:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-1**

**Lab Sample ID: 500-52302-26**

Date Collected: 11/13/12 12:40

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:10	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:10	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:10	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 07:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 07:10	1
<b>Manganese</b>	<b>0.093</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:10	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:10	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 07:10	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:10	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 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		11/19/12 15:30	12/01/12 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000078</b>	<b>J B ^ *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:34	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0068	mg/Kg	☼	11/28/12 18:00	11/29/12 11:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.07</b>		0.200	0.200	SU			11/19/12 09:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-2**

**Lab Sample ID: 500-52302-27**

Date Collected: 11/13/12 12:50

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0042	0.0018	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Toluene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	11/13/12 12:50	11/19/12 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 12:50	11/19/12 16:07	1
Dibromofluoromethane	105		73 - 122	11/13/12 12:50	11/19/12 16:07	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/13/12 12:50	11/19/12 16:07	1
Toluene-d8 (Surr)	101		72 - 122	11/13/12 12:50	11/19/12 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-2**

**Lab Sample ID: 500-52302-27**

**Date Collected: 11/13/12 12:50**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 84.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-2**

**Lab Sample ID: 500-52302-27**

Date Collected: 11/13/12 12:50

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/27/12 17:43	12/06/12 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110				11/27/12 17:43	12/06/12 17:06	1
Phenol-d5	54		31 - 110				11/27/12 17:43	12/06/12 17:06	1
Nitrobenzene-d5	57		30 - 115				11/27/12 17:43	12/06/12 17:06	1
2-Fluorobiphenyl	70		30 - 119				11/27/12 17:43	12/06/12 17:06	1
2,4,6-Tribromophenol	74		35 - 137				11/27/12 17:43	12/06/12 17:06	1
Terphenyl-d14	77		36 - 134				11/27/12 17:43	12/06/12 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Arsenic</b>	<b>1.5</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Barium</b>	<b>14</b>		0.56	0.067	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Beryllium</b>	<b>0.19 J</b>		0.23	0.017	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Boron</b>	<b>1.4 J</b>		2.8	0.53	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Calcium</b>	<b>1100 B</b>		11	2.0	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Chromium</b>	<b>4.4</b>		0.56	0.094	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Cobalt</b>	<b>3.3</b>		0.28	0.030	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Copper</b>	<b>2.9</b>		0.56	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Iron</b>	<b>3100</b>		11	4.9	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Lead</b>	<b>3.9</b>		0.28	0.097	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Magnesium</b>	<b>970 B</b>		5.6	1.1	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Manganese</b>	<b>25</b>		0.56	0.080	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Nickel</b>	<b>6.5</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Potassium</b>	<b>230</b>		28	3.2	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Sodium</b>	<b>130 B</b>		56	10	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
Thallium	<0.56		0.56	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Vanadium</b>	<b>5.9</b>		0.28	0.043	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1
<b>Zinc</b>	<b>14</b>		1.1	0.39	mg/Kg	☼	11/14/12 16:00	11/21/12 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.56</b>		0.50	0.010	mg/L		11/19/12 15:30	11/27/12 07:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 07:17	1
<b>Boron</b>	<b>1.0</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 07:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 07:17	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-7-B01-2**

**Lab Sample ID: 500-52302-27**

Date Collected: 11/13/12 12:50

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:17	1
<b>Cobalt</b>	<b>0.033</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:17	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:17	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 07:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 07:17	1
<b>Manganese</b>	<b>5.0</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:17	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:17	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 07:17	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:17	1
<b>Zinc</b>	<b>0.050</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 07:17	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		11/19/12 15:30	12/01/12 20:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000075</b>	<b>J B ^ *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:36	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0067	mg/Kg	☼	11/28/12 18:00	11/29/12 11:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.94</b>		0.200	0.200	SU			11/19/12 09:16	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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	Duplicate RPD exceeds the control limit
F	RPD of the MS and MSD exceeds the control limits
*	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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Certification Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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: WO #053 R+30  
 Project No.: IDOT2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other

COC No.: 3 of 4  
 Lab Job No.: 500-52302  
 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	
25	2034A-3-B03-2	11/13/12	12:30	S	X	X					X	X	X	X		4-8'	
26	2034A-7-801-1		12:40	S	X	X					X	X	X	X		0-4'	
27	2034A-7-B01-2		12:50	S	X	X					X	X	X	X		4-8'	
28	2034A-7-901		1:00	W	X	X					X	X	X	X		13.6'	
29	2034A-7-B02-1		1:10	S	X	X					X	X	X	X		0-4'	
30	2034A-7-B02-2		1:20	S	X	X					X	X	X	X		4-8'	
31	2034A-9-B03-1		1:30	S	X	X					X	X	X	X		0-4'	
32	2034A-9-B03-2		1:40	S	X	X					X	X	X	X		4-8'	
33	2034A-9-B01-1		1:50	S	X	X					X	X	X	X		0-4'	
34	2034A-9-B01-10UP		2:00	S	X	X					X	X	X	X		0-4'	
35	2034A-9-B01-2		2:10	S	X	X					X	X	X	X		4-8'	
36	2034A-9-901		3:00	W	X	X					X	X	X	X		11.05'	
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time
					11/13/12 9:30												11/13/12 1530
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time
					11/13/12 16:15												11/13/12 16:15
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											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:** IDOT2011-053

**WorkOrder:** 13120030

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120030

**Client Project:** IDOT2011-053

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

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	7
Receiving Check List	8
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120030

**Client Project:** IDOT2011-053

**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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120030

**Client Project:** IDOT2011-053

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

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120030

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120030-001

Client Sample ID: 2034A-7-B01-1

Matrix: SOLID

Collection Date: 11/27/2013 7:40

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>0.0517</b>	mg/L	1	12/05/2013 16:56	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120030

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120030-002

Client Sample ID: 2034A-7-B01-2

Matrix: SOLID

Collection Date: 11/27/2013 7:45

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		0.143	mg/L	1	12/05/2013 17:00	94314





### 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>Fest America - Chicago</b> <i>Teklab</i> Address: <b>2447 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: <b><u>richard.wright@festamericainc.com</u></b>	Project Name: <b>IL 30 Cook Co</b> Project No.: <b>IDOT 9011-053</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 Sampler: <b>SR</b>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <b>1812030</b> Sample Temp: <b>50°C, ice</b> <b>Matrix Key:</b> W: Water S: Soil SL: Sludge 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. <i>✓</i> ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.		<b>ANALYSES</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>VOCs</th> <th>SVOCs</th> <th>BTEX &amp; MTBE</th> <th>PNAS</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>1312030-001</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>SPLP MN/XX/CLP</b></td> <td><b>0-4</b></td> </tr> <tr> <td>7022034A-7-B01-a</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>48</b></td> </tr> <tr> <td colspan="13" style="text-align: center;"> <b>Teklab, Inc.</b>  <b>Courier Pick Up</b> </td> </tr> </tbody> </table>				VOCs	SVOCs	BTEX & MTBE	PNAS	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments	1312030-001											<b>SPLP MN/XX/CLP</b>	<b>0-4</b>	7022034A-7-B01-a												<b>48</b>	<b>Teklab, Inc.</b> <b>Courier Pick Up</b>												
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<b>Relinquished by:</b> <i>[Signature]</i>		Date/Time <b>11/27/13 4:00pm</b>		Received by: <i>[Signature]</i>			Date/Time <b>12/2/13 9:25</b>																																																	
<b>Relinquished by:</b> <i>[Signature]</i>		Date/Time <b>12/2/13 12:20</b>		Received by: <b>Stephanie Haynes</b>			Date/Time <b>12/2/13 12:20</b>																																																	
<b>Relinquished by:</b> <i>[Signature]</i>		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:** IDOT2011-053

**WorkOrder:** 13120030

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120030

**Client Project:** IDOT2011-053

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

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	7
Receiving Check List	8
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120030

**Client Project:** IDOT2011-053

**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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120030

**Client Project:** IDOT2011-053

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

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120030

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120030-001

Client Sample ID: 2034A-7-B01-1

Matrix: SOLID

Collection Date: 11/27/2013 7:40

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>0.0517</b>	mg/L	1	12/05/2013 16:56	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120030

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120030-002

Client Sample ID: 2034A-7-B01-2

Matrix: SOLID

Collection Date: 11/27/2013 7:45

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>0.143</b>	mg/L	1	12/05/2013 17:00	94314



# 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>Fest America - Chicago</b> <i>Teklab</i> Address: <b>2447 Bond Street</b> <b>University Park, IL 60484</b> Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: <a href="mailto:richardwright@festamericainc.com">richardwright@festamericainc.com</a>	Project Name: <b>IL 30 Cook Co</b> Project No.: <b>IDOT 9011-053</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 Sampler: <b>SP</b>	COC No.: <b>1</b> of <b>1</b> Lab Job No.: <b>1812030</b> Sample Temp: <b>50°C, ice</b> <b>Matrix Key:</b> W: Water S: Soil SL: Sludge 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. <i>✓</i> ** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.							
<b>ANALYSES</b>							
VOCs SVOCs BETX & MTBE PNAS Pesticides PCBs * Total Metals SPLP/** TCLP Metals PH % Solids Waste Characterization	Matrix Sample Time Sample Date Sample ID Lab ID	Date/Time Date/Time Date/Time	Date/Time Date/Time Date/Time				
	11/27/13 7:40 S 11/27/13 7:45 S	11/27/13 11	2034A-7-B01-1 2034A-7-B01-2	S S	11/27/13 9:25 12/2/13 12:20	Received by: <i>[Signature]</i> Received by: <i>[Signature]</i> Received by: <i>[Signature]</i>	Date/Time Date/Time Date/Time
Teklab, Inc. Courier Pick Up							





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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21647 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50157 Longitude: -87.52943  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)  
 Latitude: 41.50157 Longitude: -87.52943

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 2034/A-8-B02, AND 2034/A-8-B05 THROUGH -B07 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-8. SEE FIGURE 2 AND TABLE 5f 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: 500-52268 AND 500-52267. TEKLAB WORK ORDER NO.: 13120031.

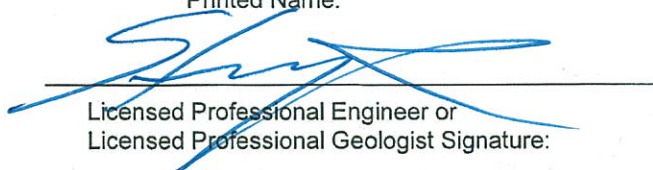
**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

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:

3/17/14  
 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
1,1,1,2-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 2034A-8**

**Lynwood Carryout**

<b>Sample ID</b>	2034A-8-B02-1	2034A-8-B02-2	2034A-8-B05-1	2034A-8-B05-2	<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
<b>Sample Depth (ft)</b>	0-5	5-10	0-5	5-10						
<b>Sample Date</b>	11/12/2012	11/12/2012	11/12/2012	11/12/2012						
<b>PID</b>	0	0	0	0						
<b>Sample pH</b>	8.69	8.37	8.6	8.07						
<b>Matrix</b>	Soil	Soil	Soil	Soil						

<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>														
Benzo (a) pyrene	0.11	1,2	ND		0.056		ND		0.09	0.09	0.98	1.3	2.1	NA

<b>Sample ID</b>	2034A-8-B06-1	2034A-8-B06-2	2034A-8-B07-1	2034A-8-B07-2	<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
<b>Sample Depth (ft)</b>	0-5	5-10	0-5	5-10						
<b>Sample Date</b>	11/12/2012	11/12/2012	11/12/2012	11/12/2012						
<b>PID</b>	0	0	0	0						
<b>Sample pH</b>	7.98	7.42	8.28	8.36						
<b>Matrix</b>	Soil	Soil	Soil	Soil						

<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>														
Benzo (a) pyrene	J 0.015		ND		J 0.014		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: 500-52268-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/10/2012 4:15:20 PM

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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 Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-1**

**Lab Sample ID: 500-52268-2**

**Date Collected: 11/12/12 14:45**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 89.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0052		0.0048	0.0021	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
2-Hexanone	<0.0048	*	0.0048	0.0014	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	11/12/12 14:45	11/16/12 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		76 - 120	11/12/12 14:45	11/16/12 14:26	1
Dibromofluoromethane	84		73 - 122	11/12/12 14:45	11/16/12 14:26	1
1,2-Dichloroethane-d4 (Surr)	105		74 - 123	11/12/12 14:45	11/16/12 14:26	1
Toluene-d8 (Surr)	111		72 - 122	11/12/12 14:45	11/16/12 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-1**

**Lab Sample ID: 500-52268-2**

**Date Collected: 11/12/12 14:45**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 89.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
<b>Fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.036	0.015	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
<b>Pyrene</b>	<b>0.017</b>	<b>J</b>	0.036	0.013	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
<b>Benzo[a]anthracene</b>	<b>0.014</b>	<b>J</b>	0.036	0.0075	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.036	0.0081	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-1**

**Lab Sample ID: 500-52268-2**

Date Collected: 11/12/12 14:45

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
<b>Benzo[b]fluoranthene</b>	<b>0.023</b>	<b>J</b>	0.036	0.0070	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
<b>Benzo[a]pyrene</b>	<b>0.015</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/26/12 17:01	12/04/12 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110				11/26/12 17:01	12/04/12 19:28	1
Phenol-d5	54		31 - 110				11/26/12 17:01	12/04/12 19:28	1
Nitrobenzene-d5	49		30 - 115				11/26/12 17:01	12/04/12 19:28	1
2-Fluorobiphenyl	53		30 - 119				11/26/12 17:01	12/04/12 19:28	1
2,4,6-Tribromophenol	72		35 - 137				11/26/12 17:01	12/04/12 19:28	1
Terphenyl-d14	68		36 - 134				11/26/12 17:01	12/04/12 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.36</b>	<b>J</b>	1.1	0.15	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Arsenic</b>	<b>3.0</b>		0.56	0.12	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Barium</b>	<b>58</b>		0.56	0.067	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Beryllium</b>	<b>0.45</b>		0.22	0.016	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Boron</b>	<b>4.0</b>		2.8	0.52	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Cadmium</b>	<b>0.33</b>	<b>B</b>	0.11	0.028	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Calcium</b>	<b>3800</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Chromium</b>	<b>9.5</b>		0.56	0.093	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Cobalt</b>	<b>4.1</b>		0.28	0.029	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Copper</b>	<b>12</b>		0.56	0.15	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Iron</b>	<b>8200</b>		11	4.8	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Lead</b>	<b>32</b>		0.28	0.096	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Magnesium</b>	<b>2200</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Manganese</b>	<b>80</b>		0.56	0.079	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Nickel</b>	<b>11</b>		0.56	0.12	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Potassium</b>	<b>770</b>		28	3.2	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Selenium</b>	<b>0.47</b>	<b>J</b>	0.56	0.16	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Sodium</b>	<b>240</b>	<b>B</b>	56	10	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Vanadium</b>	<b>13</b>		0.28	0.042	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1
<b>Zinc</b>	<b>64</b>		1.1	0.38	mg/Kg	☼	11/14/12 09:40	11/14/12 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 08:00	11/20/12 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 08:00	11/20/12 19:47	1
<b>Boron</b>	<b>1.1</b>		0.50	0.050	mg/L		11/20/12 08:00	11/20/12 19:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 08:00	11/20/12 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-1**

**Lab Sample ID: 500-52268-2**

Date Collected: 11/12/12 14:45

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 19:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 19:47	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 19:47	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 08:00	11/20/12 19:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 08:00	11/20/12 19:47	1
<b>Manganese</b>	<b>0.69</b>		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 19:47	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 19:47	1
<b>Selenium</b>	<b>0.011</b>	<b>J B</b>	0.050	0.010	mg/L		11/20/12 08:00	11/20/12 19:47	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 19:47	1
<b>Zinc</b>	<b>0.081</b>	<b>J</b>	0.10	0.020	mg/L		11/20/12 08:00	11/20/12 19:47	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		11/20/12 08:00	12/01/12 20:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 08:00	12/01/12 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000062</b>	<b>J</b>	0.00020	0.000020	mg/L		11/21/12 16:30	11/26/12 09:27	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.013</b>	<b>J</b>	0.018	0.0071	mg/Kg	☆	11/27/12 17:00	11/28/12 11:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.98</b>		0.200	0.200	SU			11/17/12 10:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-2**

**Lab Sample ID: 500-52268-3**

Date Collected: 11/12/12 14:50

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.032</b>		0.0050	0.0022	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
<b>2-Butanone (MEK)</b>	<b>0.011</b>		0.0050	0.0018	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
2-Hexanone	<0.0050	*	0.0050	0.0014	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/12/12 14:50	11/16/12 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	11/12/12 14:50	11/16/12 14:49	1
Dibromofluoromethane	86		73 - 122	11/12/12 14:50	11/16/12 14:49	1
1,2-Dichloroethane-d4 (Surr)	99		74 - 123	11/12/12 14:50	11/16/12 14:49	1
Toluene-d8 (Surr)	109		72 - 122	11/12/12 14:50	11/16/12 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-2**

**Lab Sample ID: 500-52268-3**

**Date Collected: 11/12/12 14:50**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 83.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
<b>Phenanthrene</b>	<b>0.021</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
<b>Fluoranthene</b>	<b>0.033</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
<b>Pyrene</b>	<b>0.020</b>	<b>J</b>	0.038	0.014	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0080	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
<b>Chrysene</b>	<b>0.027</b>	<b>J</b>	0.038	0.0086	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-2**

**Lab Sample ID: 500-52268-3**

Date Collected: 11/12/12 14:50

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
<b>Benzo[b]fluoranthene</b>	<b>0.029</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/26/12 17:01	12/04/12 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	51		30 - 110	11/26/12 17:01	12/04/12 19:47	1
Phenol-d5	56		31 - 110	11/26/12 17:01	12/04/12 19:47	1
Nitrobenzene-d5	50		30 - 115	11/26/12 17:01	12/04/12 19:47	1
2-Fluorobiphenyl	59		30 - 119	11/26/12 17:01	12/04/12 19:47	1
2,4,6-Tribromophenol	84		35 - 137	11/26/12 17:01	12/04/12 19:47	1
Terphenyl-d14	71		36 - 134	11/26/12 17:01	12/04/12 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.2	0.15	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Arsenic</b>	<b>5.1</b>		0.58	0.13	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Barium</b>	<b>65</b>		0.58	0.069	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Beryllium</b>	<b>0.54</b>		0.23	0.017	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Boron</b>	<b>5.6</b>		2.9	0.54	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Cadmium</b>	<b>0.39</b>	<b>B</b>	0.12	0.029	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Calcium</b>	<b>8200</b>	<b>B</b>	12	2.0	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Chromium</b>	<b>11</b>		0.58	0.097	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Cobalt</b>	<b>6.3</b>		0.29	0.030	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Copper</b>	<b>18</b>		0.58	0.16	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Iron</b>	<b>13000</b>		12	5.0	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Lead</b>	<b>40</b>		0.29	0.10	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Magnesium</b>	<b>5200</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Manganese</b>	<b>100</b>		0.58	0.082	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Nickel</b>	<b>16</b>		0.58	0.13	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Potassium</b>	<b>840</b>		29	3.3	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Selenium</b>	<b>0.58</b>		0.58	0.17	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Sodium</b>	<b>150</b>	<b>B</b>	58	11	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Vanadium</b>	<b>15</b>		0.29	0.044	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1
<b>Zinc</b>	<b>77</b>		1.2	0.40	mg/Kg	☼	11/14/12 09:40	11/14/12 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 08:00	11/20/12 20:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Boron</b>	<b>1.5</b>		0.50	0.050	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Cadmium</b>	<b>0.0028</b>	<b>J</b>	0.0050	0.0020	mg/L		11/20/12 08:00	11/20/12 20:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B06-2**

**Lab Sample ID: 500-52268-3**

Date Collected: 11/12/12 14:50

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:07	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:07	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0050	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Selenium</b>	<b>0.010</b>	<b>J B</b>	0.050	0.010	mg/L		11/20/12 08:00	11/20/12 20:07	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:07	1
<b>Zinc</b>	<b>0.16</b>		0.10	0.020	mg/L		11/20/12 08:00	11/20/12 20:07	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		11/20/12 08:00	12/01/12 20:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 08:00	12/01/12 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000063</b>	<b>J</b>	0.00020	0.000020	mg/L		11/21/12 16:30	11/26/12 09:29	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.036</b>		0.018	0.0067	mg/Kg	☆	11/27/12 17:00	11/28/12 13:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.42</b>		0.200	0.200	SU			11/17/12 10:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-1**

**Lab Sample ID: 500-52268-6**

Date Collected: 11/12/12 15:05

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0076		0.0053	0.0023	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Bromodichloromethane	<0.0053		0.0053	0.00090	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Carbon disulfide	<0.0053		0.0053	0.00078	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Chlorobenzene	<0.0053		0.0053	0.00053	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Chloroethane	<0.0053	*	0.0053	0.0014	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Chloroform	<0.0053		0.0053	0.00060	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Dibromochloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,1-Dichloroethane	<0.0053		0.0053	0.00083	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
2-Hexanone	<0.0053	*	0.0053	0.0015	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Tetrachloroethene	<0.0053		0.0053	0.00080	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00072	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00094	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/12/12 15:05	11/16/12 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	11/12/12 15:05	11/16/12 15:59	1
Dibromofluoromethane	84		73 - 122	11/12/12 15:05	11/16/12 15:59	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/12/12 15:05	11/16/12 15:59	1
Toluene-d8 (Surr)	109		72 - 122	11/12/12 15:05	11/16/12 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-1**

**Lab Sample ID: 500-52268-6**

Date Collected: 11/12/12 15:05

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.035	0.014	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
<b>Benzo[a]anthracene</b>	<b>0.0083</b>	<b>J</b>	0.035	0.0074	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
<b>Chrysene</b>	<b>0.020</b>	<b>J</b>	0.035	0.0080	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-1**

**Lab Sample ID: 500-52268-6**

Date Collected: 11/12/12 15:05

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
<b>Benzo[a]pyrene</b>	<b>0.014</b>	<b>J</b>	0.035	0.0064	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/26/12 17:01	12/04/12 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110				11/26/12 17:01	12/04/12 20:47	1
Phenol-d5	56		31 - 110				11/26/12 17:01	12/04/12 20:47	1
Nitrobenzene-d5	52		30 - 115				11/26/12 17:01	12/04/12 20:47	1
2-Fluorobiphenyl	59		30 - 119				11/26/12 17:01	12/04/12 20:47	1
2,4,6-Tribromophenol	75		35 - 137				11/26/12 17:01	12/04/12 20:47	1
Terphenyl-d14	76		36 - 134				11/26/12 17:01	12/04/12 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.25</b>	<b>J</b>	1.0	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Arsenic</b>	<b>3.3</b>		0.52	0.11	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Barium</b>	<b>77</b>		0.52	0.062	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Beryllium</b>	<b>0.38</b>		0.21	0.015	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Boron</b>	<b>5.4</b>		2.6	0.48	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Cadmium</b>	<b>0.18</b>	<b>B</b>	0.10	0.026	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Chromium</b>	<b>37</b>		0.52	0.087	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Cobalt</b>	<b>4.1</b>		0.26	0.027	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Copper</b>	<b>10</b>		0.52	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Iron</b>	<b>15000</b>		10	4.5	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Lead</b>	<b>15</b>		0.26	0.089	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Magnesium</b>	<b>6700</b>	<b>B</b>	5.2	1.0	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Manganese</b>	<b>3700</b>		5.2	0.73	mg/Kg	☼	11/14/12 09:40	11/15/12 11:24	10
<b>Nickel</b>	<b>11</b>		0.52	0.11	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Potassium</b>	<b>670</b>		26	2.9	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Selenium</b>	<b>0.99</b>		0.52	0.15	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Silver</b>	<b>0.55</b>	<b>B</b>	0.26	0.031	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Sodium</b>	<b>84</b>	<b>B</b>	52	9.5	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Thallium</b>	<b>0.46</b>	<b>J</b>	0.52	0.13	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Vanadium</b>	<b>38</b>		0.26	0.039	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1
<b>Zinc</b>	<b>46</b>		1.0	0.36	mg/Kg	☼	11/14/12 09:40	11/14/12 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 08:00	11/20/12 20:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 08:00	11/20/12 20:22	1
<b>Boron</b>	<b>4.1</b>		0.50	0.050	mg/L		11/20/12 08:00	11/20/12 20:22	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		11/20/12 08:00	11/20/12 20:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-1**

**Lab Sample ID: 500-52268-6**

Date Collected: 11/12/12 15:05

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.013	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:22	1
Cobalt	0.011	J	0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:22	1
Copper	0.026		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:22	1
Iron	0.24		0.20	0.20	mg/L		11/20/12 08:00	11/20/12 20:22	1
Lead	0.0074	J	0.0075	0.0050	mg/L		11/20/12 08:00	11/20/12 20:22	1
Manganese	1.8		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:22	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:22	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 08:00	11/20/12 20:22	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:22	1
Zinc	0.092	J	0.10	0.020	mg/L		11/20/12 08:00	11/20/12 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L		11/26/12 07:30	11/26/12 20:12	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		11/20/12 08:00	12/01/12 20:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 08:00	12/01/12 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000054	J	0.00020	0.000020	mg/L		11/21/12 16:30	11/26/12 09:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0068	mg/Kg	☼	11/27/12 17:00	11/28/12 13:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			11/17/12 10:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-2**

**Lab Sample ID: 500-52268-7**

Date Collected: 11/12/12 15:10

Matrix: Solid

Date Received: 11/13/12 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	0.0062		0.0056	0.0024	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Benzene	<0.0056		0.0056	0.00077	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Bromodichloromethane	<0.0056		0.0056	0.00096	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Bromoform	<0.0056		0.0056	0.0013	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Bromomethane	<0.0056		0.0056	0.0017	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Carbon disulfide	<0.0056		0.0056	0.00083	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Carbon tetrachloride	<0.0056		0.0056	0.0010	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Chlorobenzene	<0.0056		0.0056	0.00057	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Chloroethane	<0.0056	*	0.0056	0.0015	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Chloroform	<0.0056		0.0056	0.00064	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Chloromethane	<0.0056		0.0056	0.0012	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.00079	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.00073	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Dibromochloromethane	<0.0056		0.0056	0.00097	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,1-Dichloroethane	<0.0056		0.0056	0.00088	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,1-Dichloroethene	<0.0056		0.0056	0.00090	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,2-Dichloropropane	<0.0056		0.0056	0.00085	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.00073	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Ethylbenzene	<0.0056		0.0056	0.0011	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
2-Hexanone	<0.0056	*	0.0056	0.0016	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Methylene Chloride	<0.0056		0.0056	0.0015	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0015	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Methyl tert-butyl ether	<0.0056		0.0056	0.00092	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Styrene	<0.0056		0.0056	0.00073	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,1,1,2-Tetrachloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Tetrachloroethene	<0.0056		0.0056	0.00085	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Toluene	<0.0056		0.0056	0.00078	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.00077	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0010	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.00076	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Trichloroethene	<0.0056		0.0056	0.00092	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Vinyl chloride	<0.0056		0.0056	0.0012	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1
Xylenes, Total	<0.011		0.011	0.00051	mg/Kg	☼	11/12/12 15:10	11/16/12 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	11/12/12 15:10	11/16/12 16:22	1
Dibromofluoromethane	81		73 - 122	11/12/12 15:10	11/16/12 16:22	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/12/12 15:10	11/16/12 16:22	1
Toluene-d8 (Surr)	108		72 - 122	11/12/12 15:10	11/16/12 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.053	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
1,3-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
1,4-Dichlorobenzene	<0.17		0.17	0.035	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-2**

**Lab Sample ID: 500-52268-7**

**Date Collected: 11/12/12 15:10**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 97.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.037	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2-Chlorophenol	<0.17		0.17	0.048	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Nitrobenzene	<0.033		0.033	0.010	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.037	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,4-Dimethylphenol	<0.33		0.33	0.11	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Hexachlorobutadiene	<0.17		0.17	0.044	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Naphthalene	<0.033		0.033	0.0065	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,4-Dichlorophenol	<0.33		0.33	0.10	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
4-Chloroaniline	<0.68		0.68	0.10	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,4,6-Trichlorophenol	<0.33		0.33	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,4,5-Trichlorophenol	<0.33		0.33	0.096	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Hexachlorocyclopentadiene	<0.68		0.68	0.16	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
4-Chloro-3-methylphenol	<0.33		0.33	0.16	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2-Nitrophenol	<0.33		0.33	0.053	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
3-Nitroaniline	<0.33		0.33	0.065	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Dimethyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,4-Dinitrophenol	<0.68		0.68	0.17	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Acenaphthylene	<0.033		0.033	0.0077	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Acenaphthene	<0.033		0.033	0.010	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
4-Nitrophenol	<0.68		0.68	0.18	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Fluorene	<0.033		0.033	0.0077	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
4-Nitroaniline	<0.33		0.33	0.069	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Hexachlorobenzene	<0.068		0.068	0.0066	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.053	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Pentachlorophenol	<0.68		0.68	0.17	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
4,6-Dinitro-2-methylphenol	<0.33		0.33	0.082	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Phenanthrene	<0.033		0.033	0.014	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Anthracene	<0.033		0.033	0.0079	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Carbazole	<0.17		0.17	0.047	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Fluoranthene	<0.033		0.033	0.014	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Pyrene	<0.033		0.033	0.012	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Butyl benzyl phthalate	<0.17		0.17	0.042	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Benzo[a]anthracene	<0.033		0.033	0.0071	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Chrysene	<0.033		0.033	0.0076	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-2**

**Lab Sample ID: 500-52268-7**

Date Collected: 11/12/12 15:10

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Di-n-octyl phthalate	<0.17		0.17	0.068	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Benzo[b]fluoranthene	<0.033		0.033	0.0065	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Benzo[k]fluoranthene	<0.033		0.033	0.0080	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Benzo[a]pyrene	<0.033		0.033	0.0061	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0094	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	11/26/12 17:01	12/04/12 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		30 - 110	11/26/12 17:01	12/04/12 21:07	1
Phenol-d5	68		31 - 110	11/26/12 17:01	12/04/12 21:07	1
Nitrobenzene-d5	67		30 - 115	11/26/12 17:01	12/04/12 21:07	1
2-Fluorobiphenyl	67		30 - 119	11/26/12 17:01	12/04/12 21:07	1
2,4,6-Tribromophenol	85		35 - 137	11/26/12 17:01	12/04/12 21:07	1
Terphenyl-d14	83		36 - 134	11/26/12 17:01	12/04/12 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.20	J	0.97	0.13	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Arsenic	3.1		0.48	0.11	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Barium	8.0		0.48	0.058	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Beryllium	0.15	J	0.19	0.014	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Boron	2.0	J	2.4	0.45	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Cadmium	0.097	B	0.097	0.024	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Calcium	5400	B	9.7	1.7	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Chromium	4.0		0.48	0.081	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Cobalt	5.7		0.24	0.025	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Copper	5.1		0.48	0.13	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Iron	4500		9.7	4.2	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Lead	4.6		0.24	0.083	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Magnesium	3400	B	4.8	0.94	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Manganese	46		0.48	0.068	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Nickel	10		0.48	0.11	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Potassium	310		24	2.7	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Selenium	0.16	J	0.48	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Silver	<0.24		0.24	0.029	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Sodium	93	B	48	8.9	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Thallium	<0.48		0.48	0.12	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Vanadium	8.9		0.24	0.037	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1
Zinc	20		0.97	0.33	mg/Kg	☼	11/14/12 09:40	11/14/12 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.010	mg/L		11/20/12 08:00	11/20/12 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 08:00	11/20/12 20:27	1
Boron	4.0		0.50	0.050	mg/L		11/20/12 08:00	11/20/12 20:27	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		11/20/12 08:00	11/20/12 20:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B07-2**

**Lab Sample ID: 500-52268-7**

Date Collected: 11/12/12 15:10

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.012	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:27	1
Cobalt	0.030		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:27	1
Copper	0.020	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:27	1
Iron	0.22		0.20	0.20	mg/L		11/20/12 08:00	11/20/12 20:27	1
Lead	0.0088		0.0075	0.0050	mg/L		11/20/12 08:00	11/20/12 20:27	1
Manganese	0.36		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:27	1
Nickel	0.021	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 08:00	11/20/12 20:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:27	1
Zinc	0.069	J	0.10	0.020	mg/L		11/20/12 08:00	11/20/12 20:27	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		11/20/12 08:00	12/01/12 20:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 08:00	12/01/12 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000060	J	0.00020	0.000020	mg/L		11/21/12 16:30	11/26/12 09:40	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.016	0.0060	mg/Kg	☆	11/27/12 17:00	11/28/12 13:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			11/17/12 11:01	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-1**

**Lab Sample ID: 500-52268-8**

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

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 92.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Chloroethane	<0.0050	*	0.0050	0.0013	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
2-Hexanone	<0.0050	*	0.0050	0.0014	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/12/12 15:15	11/16/12 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	11/12/12 15:15	11/16/12 16:45	1
Dibromofluoromethane	83		73 - 122	11/12/12 15:15	11/16/12 16:45	1
1,2-Dichloroethane-d4 (Surr)	96		74 - 123	11/12/12 15:15	11/16/12 16:45	1
Toluene-d8 (Surr)	107		72 - 122	11/12/12 15:15	11/16/12 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.054	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-1**

**Lab Sample ID: 500-52268-8**

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

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 92.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Isophorone	<0.17		0.17	0.038	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Acenaphthylene	<0.034		0.034	0.0079	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
4-Nitrophenol	<0.69		0.69	0.19	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Hexachlorobenzene	<0.069		0.069	0.0068	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
<b>Phenanthrene</b>	<b>0.071</b>		0.034	0.014	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
<b>Anthracene</b>	<b>0.014 J</b>		0.034	0.0081	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Carbazole	<0.17		0.17	0.048	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
<b>Fluoranthene</b>	<b>0.20</b>		0.034	0.014	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
<b>Pyrene</b>	<b>0.16</b>		0.034	0.012	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
<b>Benzo[a]anthracene</b>	<b>0.10</b>		0.034	0.0072	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1
<b>Chrysene</b>	<b>0.12</b>		0.034	0.0078	mg/Kg	*	11/26/12 17:01	12/05/12 16:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-1**

**Lab Sample ID: 500-52268-8**

Date Collected: 11/12/12 15:15

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
<b>Benzo[b]fluoranthene</b>	<b>0.14</b>		0.034	0.0067	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
<b>Benzo[k]fluoranthene</b>	<b>0.077</b>		0.034	0.0082	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
<b>Benzo[a]pyrene</b>	<b>0.11</b>		0.034	0.0063	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.074</b>		0.034	0.012	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
<b>Dibenz(a,h)anthracene</b>	<b>0.026</b>	J	0.034	0.0096	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
<b>Benzo[g,h,i]perylene</b>	<b>0.10</b>		0.034	0.012	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	11/26/12 17:01	12/05/12 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110				11/26/12 17:01	12/05/12 16:50	1
Phenol-d5	48		31 - 110				11/26/12 17:01	12/05/12 16:50	1
Nitrobenzene-d5	51		30 - 115				11/26/12 17:01	12/05/12 16:50	1
2-Fluorobiphenyl	58		30 - 119				11/26/12 17:01	12/05/12 16:50	1
2,4,6-Tribromophenol	53		35 - 137				11/26/12 17:01	12/05/12 16:50	1
Terphenyl-d14	63		36 - 134				11/26/12 17:01	12/05/12 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.59</b>	J	1.0	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Arsenic</b>	<b>3.3</b>		0.52	0.11	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Barium</b>	<b>19</b>		0.52	0.061	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Beryllium</b>	<b>0.26</b>		0.21	0.015	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Boron</b>	<b>5.1</b>		2.6	0.48	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Cadmium</b>	<b>0.18</b>	B	0.10	0.026	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Calcium</b>	<b>63000</b>	B	100	18	mg/Kg	☼	11/14/12 09:40	11/15/12 11:35	10
<b>Chromium</b>	<b>8.1</b>		0.52	0.086	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Cobalt</b>	<b>4.5</b>		0.26	0.027	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Copper</b>	<b>8.9</b>		0.52	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Iron</b>	<b>7600</b>		10	4.5	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Lead</b>	<b>19</b>		0.26	0.089	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Magnesium</b>	<b>32000</b>	B	5.2	1.0	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Manganese</b>	<b>260</b>		0.52	0.073	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Nickel</b>	<b>11</b>		0.52	0.11	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Potassium</b>	<b>720</b>		26	2.9	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Selenium</b>	<b>0.32</b>	J	0.52	0.15	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Silver</b>	<b>0.036</b>	J B	0.26	0.031	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Sodium</b>	<b>200</b>	B	52	9.5	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Vanadium</b>	<b>11</b>		0.26	0.039	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1
<b>Zinc</b>	<b>39</b>		1.0	0.35	mg/Kg	☼	11/14/12 09:40	11/14/12 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.38</b>	J	0.50	0.010	mg/L		11/20/12 08:00	11/20/12 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 08:00	11/20/12 20:32	1
<b>Boron</b>	<b>4.5</b>		0.50	0.050	mg/L		11/20/12 08:00	11/20/12 20:32	1
<b>Cadmium</b>	<b>0.0038</b>	J	0.0050	0.0020	mg/L		11/20/12 08:00	11/20/12 20:32	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-1**

**Lab Sample ID: 500-52268-8**

Date Collected: 11/12/12 15:15

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.014	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:32	1
Cobalt	0.012	J	0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:32	1
Copper	0.014	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:32	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 08:00	11/20/12 20:32	1
Lead	0.0087		0.0075	0.0050	mg/L		11/20/12 08:00	11/20/12 20:32	1
Manganese	2.7		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:32	1
Nickel	0.026		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:32	1
Selenium	0.011	J B	0.050	0.010	mg/L		11/20/12 08:00	11/20/12 20:32	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:32	1
Zinc	0.12		0.10	0.020	mg/L		11/20/12 08:00	11/20/12 20:32	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		11/20/12 08:00	12/01/12 20:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 08:00	12/01/12 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000061	J	0.00020	0.000020	mg/L		11/21/12 16:30	11/26/12 09:42	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0066	mg/Kg	☆	11/27/12 17:00	11/28/12 13:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.69		0.200	0.200	SU			11/17/12 11:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-2**

**Lab Sample ID: 500-52268-9**

Date Collected: 11/12/12 15:20

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Bromodichloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Chloroethane	<0.0047	*	0.0047	0.0013	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Chloroform	<0.0047		0.0047	0.00055	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Chloromethane	<0.0047		0.0047	0.0010	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Dibromochloromethane	<0.0047		0.0047	0.00083	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,1-Dichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
2-Hexanone	<0.0047	*	0.0047	0.0014	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00065	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Vinyl chloride	<0.0047		0.0047	0.0010	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	11/12/12 15:20	11/16/12 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	11/12/12 15:20	11/16/12 17:09	1
Dibromofluoromethane	85		73 - 122	11/12/12 15:20	11/16/12 17:09	1
1,2-Dichloroethane-d4 (Surr)	98		74 - 123	11/12/12 15:20	11/16/12 17:09	1
Toluene-d8 (Surr)	109		72 - 122	11/12/12 15:20	11/16/12 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-2**

**Lab Sample ID: 500-52268-9**

Date Collected: 11/12/12 15:20

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Fluorene	<0.035		0.035	0.0081	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Fluoranthene	<0.035		0.035	0.015	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.035	0.013	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Chrysene	<0.035		0.035	0.0080	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-2**

**Lab Sample ID: 500-52268-9**

Date Collected: 11/12/12 15:20

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Benzo[b]fluoranthene	<0.035		0.035	0.0069	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Benzo[a]pyrene	<0.035		0.035	0.0065	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/26/12 17:01	12/10/12 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		30 - 110	11/26/12 17:01	12/10/12 15:13	1
Phenol-d5	64		31 - 110	11/26/12 17:01	12/10/12 15:13	1
Nitrobenzene-d5	47		30 - 115	11/26/12 17:01	12/10/12 15:13	1
2-Fluorobiphenyl	69		30 - 119	11/26/12 17:01	12/10/12 15:13	1
2,4,6-Tribromophenol	53		35 - 137	11/26/12 17:01	12/10/12 15:13	1
Terphenyl-d14	139	X	36 - 134	11/26/12 17:01	12/10/12 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J	1.1	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Arsenic	6.7		0.54	0.12	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Barium	18		0.54	0.064	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Beryllium	0.28		0.22	0.016	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Boron	2.7		2.7	0.50	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Cadmium	0.11	B	0.11	0.027	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Calcium	9800	B	11	1.9	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Chromium	5.5		0.54	0.090	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Cobalt	5.7		0.27	0.028	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Copper	6.3		0.54	0.15	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Iron	7000		11	4.7	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Lead	7.9		0.27	0.093	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Magnesium	6200	B	5.4	1.0	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Manganese	79		0.54	0.076	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Nickel	11		0.54	0.12	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Potassium	480		27	3.1	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Selenium	<0.54		0.54	0.16	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Sodium	110	B	54	9.9	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Vanadium	9.2		0.27	0.041	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1
Zinc	25		1.1	0.37	mg/Kg	☼	11/14/12 09:40	11/14/12 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.010	mg/L		11/20/12 08:00	11/20/12 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 08:00	11/20/12 20:48	1
Boron	4.7		0.50	0.050	mg/L		11/20/12 08:00	11/20/12 20:48	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		11/20/12 08:00	11/20/12 20:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

**Client Sample ID: 2034A-8-B02-2**

**Lab Sample ID: 500-52268-9**

Date Collected: 11/12/12 15:20

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.015	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:48	1
Cobalt	0.032		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:48	1
Copper	0.014	J	0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:48	1
Iron	0.39		0.20	0.20	mg/L		11/20/12 08:00	11/20/12 20:48	1
Lead	0.0055	J	0.0075	0.0050	mg/L		11/20/12 08:00	11/20/12 20:48	1
Manganese	5.2		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:48	1
Nickel	0.026		0.025	0.010	mg/L		11/20/12 08:00	11/20/12 20:48	1
Selenium	0.011	J B	0.050	0.010	mg/L		11/20/12 08:00	11/20/12 20:48	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 08:00	11/20/12 20:48	1
Zinc	0.088	J	0.10	0.020	mg/L		11/20/12 08:00	11/20/12 20:48	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		11/20/12 08:00	12/01/12 20:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 08:00	12/01/12 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000065	J	0.00020	0.000020	mg/L		11/21/12 16:30	11/26/12 09:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.016	0.0062	mg/Kg	☆	11/27/12 17:00	11/28/12 13:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			11/17/12 11:06	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52268-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>US 30</u>	<b>COC No.:</b> <u>3</u> of <u>3</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334	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>053</u>	Lab Job No.: <u>500-52268</u>
Contact: Colleen Grey email: cgrey@andrews-eng.com		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>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.		Sampler: <u>CRM</u>	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids		Waste Characterization	
1	2034A-8-B04-2	11/12/12	2:40	S	X	X						X	X	X			5-10'
2	2034A-8-B06-1		2:45														0-5'
3	2034A-8-B06-2		2:50														5-10'
4	2034A-8-B03-1		2:55														0-5'
5	2034A-8-B03-2		3:00														5-10'
6	2034A-8-B07-1		3:05														0-5'
7	2034A-8-B07-2		3:10														5-10'
8	2034A-8-B02-1		3:15														0-5'
9	2034A-8-B02-2		3:20														5-10'
10	2034A-V-6-G01		1:40	W	X	X						X	X				12.2'
11	2034A-17-G01		10:30	W	X	X						X	X				
12	Trap Blank																added by TA
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										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: 500-52267-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/6/2012 4:13:57 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.*

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-1**

**Lab Sample ID: 500-52267-22**

Date Collected: 11/12/12 14:25

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	11/12/12 14:25	11/16/12 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/12/12 14:25	11/16/12 08:03	1
Dibromofluoromethane	105		73 - 122	11/12/12 14:25	11/16/12 08:03	1
1,2-Dichloroethane-d4 (Surr)	96		74 - 123	11/12/12 14:25	11/16/12 08:03	1
Toluene-d8 (Surr)	97		72 - 122	11/12/12 14:25	11/16/12 08:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-1**

**Lab Sample ID: 500-52267-22**

Date Collected: 11/12/12 14:25

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Naphthalene</b>	<b>0.033</b>	<b>J</b>	0.036	0.0069	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
2,4-Dinitrotoluene	<0.18	*	0.18	0.055	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Phenanthrene</b>	<b>0.11</b>		0.036	0.015	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Anthracene</b>	<b>0.013</b>	<b>J</b>	0.036	0.0084	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Fluoranthene</b>	<b>0.12</b>		0.036	0.015	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Pyrene</b>	<b>0.11</b>		0.036	0.013	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Benzo[a]anthracene</b>	<b>0.052</b>		0.036	0.0075	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Chrysene</b>	<b>0.072</b>		0.036	0.0081	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-1**

**Lab Sample ID: 500-52267-22**

Date Collected: 11/12/12 14:25

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Benzo[b]fluoranthene</b>	<b>0.075</b>		0.036	0.0070	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Benzo[k]fluoranthene</b>	<b>0.041</b>		0.036	0.0085	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Benzo[a]pyrene</b>	<b>0.056</b>		0.036	0.0065	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.045</b>		0.036	0.012	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
<b>Benzo[g,h,i]perylene</b>	<b>0.060</b>		0.036	0.012	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/26/12 07:20	12/05/12 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110	11/26/12 07:20	12/05/12 18:23	1
Phenol-d5	71		31 - 110	11/26/12 07:20	12/05/12 18:23	1
Nitrobenzene-d5	77		30 - 115	11/26/12 07:20	12/05/12 18:23	1
2-Fluorobiphenyl	85		30 - 119	11/26/12 07:20	12/05/12 18:23	1
2,4,6-Tribromophenol	97		35 - 137	11/26/12 07:20	12/05/12 18:23	1
Terphenyl-d14	81		36 - 134	11/26/12 07:20	12/05/12 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Arsenic</b>	<b>2.9</b>		0.52	0.11	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Barium</b>	<b>51</b>		0.52	0.062	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Beryllium</b>	<b>0.60</b>		0.21	0.015	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Boron</b>	<b>7.7</b>		2.6	0.48	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Cadmium</b>	<b>0.13</b>		0.10	0.026	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Calcium</b>	<b>11000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Chromium</b>	<b>6.5</b>		0.52	0.087	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Cobalt</b>	<b>3.5</b>		0.26	0.027	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Copper</b>	<b>8.5</b>		0.52	0.14	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Iron</b>	<b>7200</b>		10	4.5	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Lead</b>	<b>10</b>		0.26	0.089	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Magnesium</b>	<b>3800</b>		5.2	1.0	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Manganese</b>	<b>260</b>		0.52	0.073	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Nickel</b>	<b>8.9</b>		0.52	0.11	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Potassium</b>	<b>570</b>	<b>B</b>	26	2.9	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Selenium</b>	<b>0.43</b>	<b>J</b>	0.52	0.15	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Sodium</b>	<b>310</b>	<b>B</b>	52	9.5	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Vanadium</b>	<b>9.7</b>		0.26	0.039	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1
<b>Zinc</b>	<b>32</b>		1.0	0.36	mg/Kg	☼	11/14/12 08:30	11/15/12 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 06:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 06:11	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 06:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 06:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-1**

**Lab Sample ID: 500-52267-22**

Date Collected: 11/12/12 14:25

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 06:11	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:11	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 06:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 06:11	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:11	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:11	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 06:11	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 06:11	1
<b>Zinc</b>	<b>0.084</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 06:11	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		11/19/12 15:30	12/01/12 20:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000075</b>	<b>J B ^ *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0067	mg/Kg	☼	11/21/12 18:30	11/26/12 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.60</b>		0.200	0.200	SU			11/17/12 10:38	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-2**

**Lab Sample ID: 500-52267-23**

Date Collected: 11/12/12 14:30

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/12/12 14:30	11/16/12 08:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/12/12 14:30	11/16/12 08:26	1
Dibromofluoromethane	105		73 - 122	11/12/12 14:30	11/16/12 08:26	1
1,2-Dichloroethane-d4 (Surr)	103		74 - 123	11/12/12 14:30	11/16/12 08:26	1
Toluene-d8 (Surr)	101		72 - 122	11/12/12 14:30	11/16/12 08:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-2**

**Lab Sample ID: 500-52267-23**

Date Collected: 11/12/12 14:30

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
4-Chloroaniline	<0.76		0.76	0.12	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2-Nitroaniline	<0.19 *		0.19	0.068	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
2,4-Dinitrotoluene	<0.19 *		0.19	0.058	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Hexachlorobenzene	<0.076		0.076	0.0075	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Benzo[a]anthracene	<0.038		0.038	0.0079	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-2**

**Lab Sample ID: 500-52267-23**

Date Collected: 11/12/12 14:30

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Benzo[k]fluoranthene	<0.038		0.038	0.0090	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/26/12 17:01	12/05/12 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110	11/26/12 17:01	12/05/12 18:44	1
Phenol-d5	54		31 - 110	11/26/12 17:01	12/05/12 18:44	1
Nitrobenzene-d5	59		30 - 115	11/26/12 17:01	12/05/12 18:44	1
2-Fluorobiphenyl	66		30 - 119	11/26/12 17:01	12/05/12 18:44	1
2,4,6-Tribromophenol	68		35 - 137	11/26/12 17:01	12/05/12 18:44	1
Terphenyl-d14	68		36 - 134	11/26/12 17:01	12/05/12 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Arsenic</b>	<b>6.1</b>		0.59	0.13	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Barium</b>	<b>73</b>		0.59	0.071	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Beryllium</b>	<b>0.57</b>		0.24	0.017	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Boron</b>	<b>5.5</b>		3.0	0.55	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Cadmium</b>	<b>0.076</b> J		0.12	0.029	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Calcium</b>	<b>4600</b> B		12	2.1	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Chromium</b>	<b>11</b>		0.59	0.099	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Cobalt</b>	<b>6.0</b>		0.30	0.031	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Copper</b>	<b>11</b>		0.59	0.16	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Iron</b>	<b>14000</b>		12	5.1	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Lead</b>	<b>9.5</b>		0.30	0.10	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Magnesium</b>	<b>2000</b>		5.9	1.1	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Manganese</b>	<b>150</b>		0.59	0.084	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Nickel</b>	<b>15</b>		0.59	0.13	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Potassium</b>	<b>740</b> B		30	3.4	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Selenium</b>	<b>0.42</b> J		0.59	0.17	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Sodium</b>	<b>260</b> B		59	11	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Vanadium</b>	<b>17</b>		0.30	0.045	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1
<b>Zinc</b>	<b>35</b>		1.2	0.41	mg/Kg	☼	11/14/12 08:30	11/15/12 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b> J		0.50	0.010	mg/L		11/19/12 15:30	11/27/12 06:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 06:52	1
<b>Boron</b>	<b>0.82</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 06:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 06:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B05-2**

**Lab Sample ID: 500-52267-23**

Date Collected: 11/12/12 14:30

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 06:52	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:52	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 06:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 06:52	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:52	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 06:52	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 06:52	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 06:52	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 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		11/19/12 15:30	12/01/12 20:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000078</b>	<b>J B ^ *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:25	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.016</b>	<b>J</b>	0.019	0.0072	mg/Kg	☼	11/21/12 18:30	11/26/12 10:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.07</b>		0.200	0.200	SU			11/17/12 10:40	1

# Lab Chronicle

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B04-1**

**Lab Sample ID: 500-52267-24**

**Date Collected: 11/12/12 14:35**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	170124	(Start) 11/17/12 10:43 (End) 11/17/12 10:45	APW	TAL CHI

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>	Project Name: <u>US 30</u>	COC No.: <u>2 of 3</u>
	Lab: <b>Test America - Chicago</b>	Project No.: <u>IDOT2011-053</u>	Lab Job No.: <u>500-52267</u>
	Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</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:
	Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: <u>richard.wright@testamericainc.com</u>	Sampler: <u>CRM</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.

ANALYSES													Matrix Key: W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization			

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization			Comments
13	2034A-G-B02-1	11/12/12	12:00	S	X	X					X	X	X	X				0-4'
14	2034A-G-B02-2		12:15															4-8'
15	2034A-G-B04-1		12:30															0-5'
16	2034A-11-B04-2		12:45															5-10'
17	2034A-6-B04-1		12:55															0-4'
18	2034A-6-B04-2		1:00															4-8'
19	2034A-6-B01-1		1:10															0-4'
20	2034A-6-B01-2		1:20															4-8'
21	2034A-6-B01-1-DUP		1:15															0-4'
22	2034A-8-B05-1		2:25															0-5'
23	2034A-8-B05-2		2:30															5-10'
24	2034A-8-B04-1		2:35															0-5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/12/12/1530</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/12/12/1538</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/12/12/1417</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/13/12 0700</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

December 11, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120031

Dear Colleen Grey:

TEKLAB, INC received 10 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120031

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	15
Receiving Check List	17
Chain of Custody	Appended



**Client:** Andrews Engineering, Inc.

**Work Order:** 13120031

**Client Project:** IDOT2011-053

**Report Date:** 11-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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120031

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120031

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120031-001

Client Sample ID: 2034A-8-B02-1

Matrix: SOLID

Collection Date: 11/27/2013 9:50

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		0.134	mg/L	1	12/05/2013 17:04	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120031

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120031-002

Client Sample ID: 2034A-8-B02-2

Matrix: SOLID

Collection Date: 11/27/2013 10:00

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	0.0016	0.005		<b>0.0584</b>	mg/L	1	12/05/2013 17:15	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120031

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120031-005

Client Sample ID: 2034A-8-B05-1

Matrix: SOLID

Collection Date: 11/27/2013 8:25

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	0.0016	0.005		0.119	mg/L	1	12/05/2013 17:26	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120031

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120031-006

Client Sample ID: 2034A-8-B05-2

Matrix: SOLID

Collection Date: 11/27/2013 8:30

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>0.0822</b>	mg/L	1	12/05/2013 17:29	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120031

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120031-009

Client Sample ID: 2034A-8-B07-1

Matrix: SOLID

Collection Date: 11/27/2013 7:50

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		<b>0.042</b>	mg/L	1	12/05/2013 17:48	94314



## Laboratory Results

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

Client: Andrews Engineering, Inc.  
Client Project: IDOT2011-053  
Lab ID: 13120031-010  
Matrix: SOLID

Work Order: 13120031  
Report Date: 11-Dec-13  
Client Sample ID: 2034A-8-B07-2  
Collection Date: 11/27/2013 7:55

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>0.0235</b>	mg/L	1	12/05/2013 17:59	94314





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>IL 30 Cook 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: <del>Test America - Chicago</del> <u>Teklab</u> Address: <u>2447 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-534-5200</u> Contact: <u>Dick Wright</u> email: <u>dick.wright@lestametric.com</u>	Project No.: <u>IDOT 2011-053</u>	Lab Job No.: <u>13120031</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>5.0°C ice</u>
		Sampler: <u>SR</u>	Matrix Key:

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments		
					VOCS	BTEX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	PH	% Solids	Waste Characterization			
13120031-001	2034A-8-B02-1	11/27/13	9:50	S													0-5
002	2034A-8-B02-2		10:00														5-10
003	2034A-8-B03-1		8:15														0-5
004	2034A-8-B03-2		8:20														5-10
005	2034A-8-B05-1		8:25														0-5
006	2034A-8-B05-2		8:30														5-10
007	2034A-8-B06-1		8:05														0-5
008	2034A-8-B06-2		8:10														5-10
009	2034A-8-B07-1		7:50														0-5
010	2034A-8-B07-2		7:55	S													5-10

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/27/13 4:00pm</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/2/13 9:25</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/2/13 12:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/2/13 12:20</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/2/13 12:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/2/13 12:20</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.

Teklab, Inc  
Courier Pick Up



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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21686 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50146 Longitude: -87.52993  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.50146 Longitude: -87.52993

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 2034/A-9-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-9. SEE FIGURE 2 AND TABLE 5g 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: 500-52302. TEKLAB WORK ORDER NO.: 13120032.

**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:

3/17/14

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
1,1,1,2-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 2034A-9

Lynwood Storage

Sample ID	2034A-9-B01-1	2034A-9-B01-1 DUP	2034A-9-B01-2	2034A-9-B02-1	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	0-4	4-8	0-4						
Sample Date	11/13/2012	11/13/2012	11/13/2012	11/13/2012						
PID	0	0	0	0						
Sample pH	7.98	7.61	8	8.36						
Matrix	Soil	Soil	Soil	Soil						
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>										
Benzo (a) pyrene	ND	ND	ND	ND	0.09	0.09	0.98	1.3	2.1	NA

Sample ID	2034A-9-B02-2	2034A-9-B03-1	2034A-9-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)	4-8	0-4	4-8							
Sample Date	11/13/2012	11/13/2012	11/13/2012							
PID	0	0	0							
Sample pH	8.18	8.23	8.4							
Matrix	Soil	Soil	Soil							
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>										
Benzo (a) pyrene	ND	0.23	1,2	J 0.012	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: 500-52302-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/10/2012 4:58:26 PM

Richard Wright  
Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)



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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
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- 12
- 13
- 14
- 15



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-1**

**Lab Sample ID: 500-52302-31**

Date Collected: 11/13/12 13:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0048		0.0041	0.0018	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Benzene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Bromodichloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Bromoform	<0.0041		0.0041	0.00095	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Carbon disulfide	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Carbon tetrachloride	<0.0041		0.0041	0.00075	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Chlorobenzene	<0.0041		0.0041	0.00042	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Chloroform	<0.0041		0.0041	0.00048	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Chloromethane	<0.0041		0.0041	0.00087	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Dibromochloromethane	<0.0041		0.0041	0.00072	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,1-Dichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,2-Dichloropropane	<0.0041		0.0041	0.00063	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Tetrachloroethene	<0.0041		0.0041	0.00063	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Toluene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00074	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Trichloroethene	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Vinyl chloride	<0.0041		0.0041	0.00087	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1
Xylenes, Total	<0.0083		0.0083	0.00037	mg/Kg	☼	11/13/12 13:30	11/19/12 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/13/12 13:30	11/19/12 17:16	1
Dibromofluoromethane	107		73 - 122	11/13/12 13:30	11/19/12 17:16	1
1,2-Dichloroethane-d4 (Surr)	99		74 - 123	11/13/12 13:30	11/19/12 17:16	1
Toluene-d8 (Surr)	100		72 - 122	11/13/12 13:30	11/19/12 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-1**

**Lab Sample ID: 500-52302-31**

Date Collected: 11/13/12 13:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Phenanthrene</b>	<b>0.073</b>		0.036	0.015	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Anthracene</b>	<b>0.015 J</b>		0.036	0.0086	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Fluoranthene</b>	<b>0.19</b>		0.036	0.015	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Pyrene</b>	<b>0.18</b>		0.036	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Benzo[a]anthracene</b>	<b>0.12</b>		0.036	0.0077	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Chrysene</b>	<b>0.15</b>		0.036	0.0082	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-1**

**Lab Sample ID: 500-52302-31**

Date Collected: 11/13/12 13:30

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Benzo[b]fluoranthene</b>	<b>0.29</b>		0.036	0.0071	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Benzo[k]fluoranthene</b>	<b>0.14</b>		0.036	0.0087	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Benzo[a]pyrene</b>	<b>0.23</b>		0.036	0.0067	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.17</b>		0.036	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Dibenz(a,h)anthracene</b>	<b>0.048</b>		0.036	0.010	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
<b>Benzo[g,h,i]perylene</b>	<b>0.22</b>		0.036	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/27/12 17:43	12/06/12 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110				11/27/12 17:43	12/06/12 18:10	1
Phenol-d5	47		31 - 110				11/27/12 17:43	12/06/12 18:10	1
Nitrobenzene-d5	45		30 - 115				11/27/12 17:43	12/06/12 18:10	1
2-Fluorobiphenyl	62		30 - 119				11/27/12 17:43	12/06/12 18:10	1
2,4,6-Tribromophenol	69		35 - 137				11/27/12 17:43	12/06/12 18:10	1
Terphenyl-d14	68		36 - 134				11/27/12 17:43	12/06/12 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Arsenic</b>	<b>3.9</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Barium</b>	<b>78</b>		0.55	0.066	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Beryllium</b>	<b>0.66</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Boron</b>	<b>5.0</b>		2.8	0.52	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Cadmium</b>	<b>0.18</b>		0.11	0.027	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Calcium</b>	<b>5800</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Chromium</b>	<b>15</b>		0.55	0.092	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Cobalt</b>	<b>5.1</b>		0.28	0.029	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Copper</b>	<b>12</b>		0.55	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Iron</b>	<b>12000</b>		11	4.8	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Lead</b>	<b>17</b>		0.28	0.095	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Magnesium</b>	<b>3800</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Manganese</b>	<b>160</b>		0.55	0.078	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Nickel</b>	<b>14</b>		0.55	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Potassium</b>	<b>870</b>		28	3.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Sodium</b>	<b>900</b>	<b>B</b>	55	10	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Thallium</b>	<b>0.20</b>	<b>J</b>	0.55	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Vanadium</b>	<b>19</b>		0.28	0.042	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1
<b>Zinc</b>	<b>34</b>		1.1	0.38	mg/Kg	☼	11/14/12 16:00	11/21/12 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 07:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 07:35	1
<b>Boron</b>	<b>0.86</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 07:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 07:35	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-1**

**Lab Sample ID: 500-52302-31**

Date Collected: 11/13/12 13:30

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:35	1
<b>Cobalt</b>	<b>0.0073</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:35	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:35	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 07:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 07:35	1
<b>Manganese</b>	<b>4.0</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:35	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:35	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 07:35	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:35	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 07:35	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		11/19/12 15:30	12/01/12 20:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000072</b>	<b>J B *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:45	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0090</b>	<b>J</b>	0.017	0.0065	mg/Kg	☼	11/28/12 18:00	11/29/12 11:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.23</b>		0.200	0.200	SU			11/19/12 09:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-2**

**Lab Sample ID: 500-52302-32**

Date Collected: 11/13/12 13:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0033	J	0.0045	0.0020	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	11/13/12 13:40	11/19/12 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/13/12 13:40	11/19/12 17:39	1
Dibromofluoromethane	107		73 - 122	11/13/12 13:40	11/19/12 17:39	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/13/12 13:40	11/19/12 17:39	1
Toluene-d8 (Surr)	98		72 - 122	11/13/12 13:40	11/19/12 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-2**

**Lab Sample ID: 500-52302-32**

**Date Collected: 11/13/12 13:40**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-2**

**Lab Sample ID: 500-52302-32**

Date Collected: 11/13/12 13:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
<b>Benzo[k]fluoranthene</b>	<b>0.0096</b>	<b>J</b>	0.039	0.0093	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
<b>Benzo[a]pyrene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0071	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
<b>Benzo[g,h,i]perylene</b>	<b>0.013</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/27/12 17:43	12/06/12 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	26	X	30 - 110	11/27/12 17:43	12/06/12 18:31	1
Phenol-d5	19	X	31 - 110	11/27/12 17:43	12/06/12 18:31	1
Nitrobenzene-d5	22	X	30 - 115	11/27/12 17:43	12/06/12 18:31	1
2-Fluorobiphenyl	29	X	30 - 119	11/27/12 17:43	12/06/12 18:31	1
2,4,6-Tribromophenol	25	X	35 - 137	11/27/12 17:43	12/06/12 18:31	1
Terphenyl-d14	32	X	36 - 134	11/27/12 17:43	12/06/12 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Arsenic</b>	<b>7.0</b>		0.58	0.13	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Barium</b>	<b>36</b>		0.58	0.069	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Beryllium</b>	<b>0.46</b>		0.23	0.017	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Boron</b>	<b>6.2</b>		2.9	0.54	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Cadmium</b>	<b>0.28</b>		0.12	0.029	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Calcium</b>	<b>29000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Chromium</b>	<b>12</b>		0.58	0.097	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Cobalt</b>	<b>6.0</b>		0.29	0.031	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Copper</b>	<b>13</b>		0.58	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Iron</b>	<b>13000</b>		12	5.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Lead</b>	<b>8.7</b>		0.29	0.10	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Magnesium</b>	<b>15000</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Manganese</b>	<b>260</b>		0.58	0.082	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Nickel</b>	<b>15</b>		0.58	0.13	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Potassium</b>	<b>1500</b>		29	3.3	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Sodium</b>	<b>370</b>	<b>B</b>	58	11	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Vanadium</b>	<b>15</b>		0.29	0.044	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1
<b>Zinc</b>	<b>32</b>		1.2	0.40	mg/Kg	☼	11/14/12 16:00	11/21/12 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 07:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 07:41	1
<b>Boron</b>	<b>1.0</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 07:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 07:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B03-2**

**Lab Sample ID: 500-52302-32**

Date Collected: 11/13/12 13:40

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:41	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:41	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:41	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 07:41	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 07:41	1
<b>Manganese</b>	<b>3.4</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:41	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 07:41	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 07:41	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 07:41	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 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		11/19/12 15:30	12/01/12 20:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000076</b>	<b>J B *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0069	mg/Kg	☼	11/28/12 18:00	11/29/12 11:24	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			11/19/12 09:29	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1**

**Lab Sample ID: 500-52302-33**

**Date Collected: 11/13/12 13:50**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0041		0.0041	0.0018	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Bromoform	<0.0041		0.0041	0.00094	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Chloromethane	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00058	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,1-Dichloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Ethylbenzene	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00068	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Styrene	<0.0041		0.0041	0.00054	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,1,1,2-Tetrachloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00056	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Vinyl chloride	<0.0041		0.0041	0.00086	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1
Xylenes, Total	<0.0082		0.0082	0.00037	mg/Kg	☼	11/13/12 13:50	11/20/12 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		76 - 120	11/13/12 13:50	11/20/12 23:14	1
Dibromofluoromethane	105		73 - 122	11/13/12 13:50	11/20/12 23:14	1
1,2-Dichloroethane-d4 (Surr)	113		74 - 123	11/13/12 13:50	11/20/12 23:14	1
Toluene-d8 (Surr)	112		72 - 122	11/13/12 13:50	11/20/12 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1**

**Lab Sample ID: 500-52302-33**

**Date Collected: 11/13/12 13:50**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 88.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Chrysene	<0.037		0.037	0.0084	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1**

**Lab Sample ID: 500-52302-33**

Date Collected: 11/13/12 13:50

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/27/12 17:43	12/06/12 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		30 - 110	11/27/12 17:43	12/06/12 18:52	1
Phenol-d5	44		31 - 110	11/27/12 17:43	12/06/12 18:52	1
Nitrobenzene-d5	46		30 - 115	11/27/12 17:43	12/06/12 18:52	1
2-Fluorobiphenyl	60		30 - 119	11/27/12 17:43	12/06/12 18:52	1
2,4,6-Tribromophenol	58		35 - 137	11/27/12 17:43	12/06/12 18:52	1
Terphenyl-d14	68		36 - 134	11/27/12 17:43	12/06/12 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Arsenic</b>	<b>4.2</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Barium</b>	<b>42</b>		0.56	0.067	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Beryllium</b>	<b>0.35</b>		0.23	0.017	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Boron</b>	<b>2.9</b>		2.8	0.53	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.028	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Calcium</b>	<b>13000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Chromium</b>	<b>7.3</b>		0.56	0.094	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Cobalt</b>	<b>4.3</b>		0.28	0.030	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Copper</b>	<b>6.6</b>		0.56	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Iron</b>	<b>7600</b>		11	4.9	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Lead</b>	<b>6.7</b>		0.28	0.097	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Magnesium</b>	<b>6200</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Manganese</b>	<b>100</b>		0.56	0.080	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Nickel</b>	<b>9.6</b>		0.56	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Potassium</b>	<b>400</b>		28	3.2	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Sodium</b>	<b>73</b>	<b>B</b>	56	10	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
Thallium	<0.56		0.56	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Vanadium</b>	<b>12</b>		0.28	0.043	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1
<b>Zinc</b>	<b>19</b>		1.1	0.39	mg/Kg	☼	11/14/12 16:00	11/21/12 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 08:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 08:02	1
<b>Boron</b>	<b>1.1</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 08:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 08:02	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1**

**Lab Sample ID: 500-52302-33**

Date Collected: 11/13/12 13:50

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:02	1
<b>Cobalt</b>	<b>0.0057</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:02	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:02	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 08:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 08:02	1
<b>Manganese</b>	<b>0.63</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:02	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:02	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 08:02	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:02	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 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		11/19/12 15:30	12/01/12 20:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000077</b>	<b>J B *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:49	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0071	mg/Kg	☼	11/28/12 18:00	11/29/12 11:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.98</b>		0.200	0.200	SU			11/19/12 09:33	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1DUP**

**Lab Sample ID: 500-52302-34**

Date Collected: 11/13/12 14:00

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.072		0.0044	0.0019	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	11/13/12 14:00	11/19/12 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/13/12 14:00	11/19/12 18:25	1
Dibromofluoromethane	111		73 - 122	11/13/12 14:00	11/19/12 18:25	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/13/12 14:00	11/19/12 18:25	1
Toluene-d8 (Surr)	101		72 - 122	11/13/12 14:00	11/19/12 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1DUP**

**Lab Sample ID: 500-52302-34**

Date Collected: 11/13/12 14:00

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
<b>Fluorene</b>	<b>0.025</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
<b>Phenanthrene</b>	<b>0.095</b>		0.037	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
<b>Anthracene</b>	<b>0.023</b>	<b>J</b>	0.037	0.0087	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
<b>Fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.037	0.015	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
<b>Pyrene</b>	<b>0.094</b>		0.037	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
<b>Benzo[a]anthracene</b>	<b>0.0099</b>	<b>J</b>	0.037	0.0078	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
<b>Chrysene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1DUP**

**Lab Sample ID: 500-52302-34**

Date Collected: 11/13/12 14:00

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/27/12 17:43	12/06/12 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		30 - 110	11/27/12 17:43	12/06/12 19:14	1
Phenol-d5	43		31 - 110	11/27/12 17:43	12/06/12 19:14	1
Nitrobenzene-d5	41		30 - 115	11/27/12 17:43	12/06/12 19:14	1
2-Fluorobiphenyl	56		30 - 119	11/27/12 17:43	12/06/12 19:14	1
2,4,6-Tribromophenol	63		35 - 137	11/27/12 17:43	12/06/12 19:14	1
Terphenyl-d14	64		36 - 134	11/27/12 17:43	12/06/12 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Arsenic</b>	<b>3.8</b>		0.54	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Barium</b>	<b>75</b>		0.54	0.064	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Beryllium</b>	<b>0.51</b>		0.22	0.016	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Boron</b>	<b>3.5</b>		2.7	0.50	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.027	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Calcium</b>	<b>5700</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Chromium</b>	<b>11</b>		0.54	0.090	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Cobalt</b>	<b>4.9</b>		0.27	0.028	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Copper</b>	<b>7.4</b>		0.54	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Iron</b>	<b>9100</b>		11	4.7	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Lead</b>	<b>7.8</b>		0.27	0.093	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Magnesium</b>	<b>3900</b>	<b>B</b>	5.4	1.0	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Manganese</b>	<b>85</b>		0.54	0.076	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Nickel</b>	<b>12</b>		0.54	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Potassium</b>	<b>660</b>		27	3.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
Selenium	<0.54		0.54	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Sodium</b>	<b>61</b>	<b>B</b>	54	9.9	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Thallium</b>	<b>0.17</b>	<b>J</b>	0.54	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Vanadium</b>	<b>15</b>		0.27	0.041	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1
<b>Zinc</b>	<b>25</b>		1.1	0.37	mg/Kg	☼	11/14/12 16:00	11/21/12 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 08:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 08:09	1
<b>Boron</b>	<b>1.5</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 08:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 08:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-1DUP**

**Lab Sample ID: 500-52302-34**

Date Collected: 11/13/12 14:00

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:09	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:09	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 08:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 08:09	1
<b>Manganese</b>	<b>0.39</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:09	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:09	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 08:09	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:09	1
<b>Zinc</b>	<b>0.021</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 08:09	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		11/19/12 15:30	12/01/12 20:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000076</b>	<b>J B *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:51	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0070	mg/Kg	☼	11/28/12 18:00	11/29/12 11:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.61</b>		0.200	0.200	SU			11/19/12 09:36	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-2**

**Lab Sample ID: 500-52302-35**

**Date Collected: 11/13/12 14:10**

**Matrix: Solid**

**Date Received: 11/13/12 16:15**

**Percent Solids: 81.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0031	J	0.0043	0.0019	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	11/13/12 14:10	11/19/12 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/13/12 14:10	11/19/12 18:48	1
Dibromofluoromethane	104		73 - 122	11/13/12 14:10	11/19/12 18:48	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/13/12 14:10	11/19/12 18:48	1
Toluene-d8 (Surr)	100		72 - 122	11/13/12 14:10	11/19/12 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-2**

**Lab Sample ID: 500-52302-35**

Date Collected: 11/13/12 14:10

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Isophorone	<0.20		0.20	0.045	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Naphthalene	<0.040		0.040	0.0078	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2-Methylnaphthalene	<0.20		0.20	0.053	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2-Nitrophenol	<0.40		0.40	0.064	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Acenaphthylene	<0.040		0.040	0.0093	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Dibenzofuran	<0.20		0.20	0.049	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Fluorene	<0.040		0.040	0.0092	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Anthracene	<0.040		0.040	0.0095	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Carbazole	<0.20		0.20	0.057	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Fluoranthene	<0.040		0.040	0.017	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Pyrene	<0.040		0.040	0.015	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Benzo[a]anthracene	<0.040		0.040	0.0085	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1
Chrysene	<0.040		0.040	0.0092	mg/Kg	*	11/27/12 17:43	12/06/12 19:35	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-2**

**Lab Sample ID: 500-52302-35**

Date Collected: 11/13/12 14:10

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Benzo[b]fluoranthene	<0.040		0.040	0.0079	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Benzo[k]fluoranthene	<0.040		0.040	0.0097	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Benzo[a]pyrene	<0.040		0.040	0.0074	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	11/27/12 17:43	12/06/12 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		30 - 110	11/27/12 17:43	12/06/12 19:35	1
Phenol-d5	49		31 - 110	11/27/12 17:43	12/06/12 19:35	1
Nitrobenzene-d5	49		30 - 115	11/27/12 17:43	12/06/12 19:35	1
2-Fluorobiphenyl	59		30 - 119	11/27/12 17:43	12/06/12 19:35	1
2,4,6-Tribromophenol	58		35 - 137	11/27/12 17:43	12/06/12 19:35	1
Terphenyl-d14	69		36 - 134	11/27/12 17:43	12/06/12 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Arsenic</b>	<b>4.2</b>		0.57	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Barium</b>	<b>45</b>		0.57	0.068	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Beryllium</b>	<b>0.74</b>		0.23	0.017	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Boron</b>	<b>11</b>		2.9	0.53	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Cadmium</b>	<b>0.55</b>		0.11	0.028	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Calcium</b>	<b>38000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Chromium</b>	<b>21</b>		0.57	0.096	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Cobalt</b>	<b>12</b>		0.29	0.030	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Copper</b>	<b>23</b>		0.57	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Iron</b>	<b>20000</b>		11	5.0	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Lead</b>	<b>12</b>		0.29	0.099	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Manganese</b>	<b>320</b>		0.57	0.081	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Nickel</b>	<b>33</b>		0.57	0.13	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Potassium</b>	<b>3300</b>		29	3.2	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Sodium</b>	<b>200</b>	<b>B</b>	57	10	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Thallium</b>	<b>0.38</b>	<b>J</b>	0.57	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Vanadium</b>	<b>19</b>		0.29	0.043	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1
<b>Zinc</b>	<b>60</b>		1.1	0.39	mg/Kg	☼	11/14/12 16:00	11/21/12 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.53</b>		0.50	0.010	mg/L		11/19/12 15:30	11/27/12 08:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Boron</b>	<b>1.9</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Cadmium</b>	<b>0.0029</b>	<b>J</b>	0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 08:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B01-2**

**Lab Sample ID: 500-52302-35**

Date Collected: 11/13/12 14:10

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Cobalt</b>	<b>0.047</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Iron</b>	<b>1.3</b>		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Lead</b>	<b>0.0055</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Manganese</b>	<b>4.8</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Nickel</b>	<b>0.057</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:15	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 08:15	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:15	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 08:15	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		11/19/12 15:30	12/01/12 20:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000078</b>	<b>J B *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:53	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0071	mg/Kg	☼	11/28/12 18:00	11/29/12 12:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.00</b>		0.200	0.200	SU			11/19/12 09:39	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-1**

**Lab Sample ID: 500-52302-37**

Date Collected: 11/13/12 14:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0078		0.0051	0.0022	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Benzene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Bromodichloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Bromomethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Carbon tetrachloride	<0.0051		0.0051	0.00094	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00068	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Dibromochloromethane	<0.0051		0.0051	0.00090	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,1,1-Dichloroethane	<0.0051		0.0051	0.00083	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00068	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Styrene	<0.0051		0.0051	0.00068	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Tetrachloroethene	<0.0051		0.0051	0.00079	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/13/12 14:40	11/19/12 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/13/12 14:40	11/19/12 19:10	1
Dibromofluoromethane	106		73 - 122	11/13/12 14:40	11/19/12 19:10	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/13/12 14:40	11/19/12 19:10	1
Toluene-d8 (Surr)	102		72 - 122	11/13/12 14:40	11/19/12 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-1**

**Lab Sample ID: 500-52302-37**

Date Collected: 11/13/12 14:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,4-Dinitrophenol	<0.69		0.69	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Acenaphthylene	<0.034		0.034	0.0079	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
4-Nitrophenol	<0.69		0.69	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Fluorene	<0.034		0.034	0.0078	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Hexachlorobenzene	<0.069		0.069	0.0068	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Anthracene	<0.034		0.034	0.0081	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Benzo[a]anthracene	<0.034		0.034	0.0072	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Chrysene	<0.034		0.034	0.0078	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-1**

**Lab Sample ID: 500-52302-37**

Date Collected: 11/13/12 14:40

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Benzo[b]fluoranthene	<0.034		0.034	0.0067	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Benzo[k]fluoranthene	<0.034		0.034	0.0082	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Benzo[a]pyrene	<0.034		0.034	0.0063	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
Benzo[g,h,i]perylene	<0.034		0.034	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	11/27/12 17:43	12/06/12 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		30 - 110	11/27/12 17:43	12/06/12 19:56	1
Phenol-d5	58		31 - 110	11/27/12 17:43	12/06/12 19:56	1
Nitrobenzene-d5	59		30 - 115	11/27/12 17:43	12/06/12 19:56	1
2-Fluorobiphenyl	75		30 - 119	11/27/12 17:43	12/06/12 19:56	1
2,4,6-Tribromophenol	83		35 - 137	11/27/12 17:43	12/06/12 19:56	1
Terphenyl-d14	86		36 - 134	11/27/12 17:43	12/06/12 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Arsenic</b>	<b>5.1</b>		0.53	0.11	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Barium</b>	<b>44</b>		0.53	0.063	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Beryllium</b>	<b>0.35</b>		0.21	0.015	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Boron</b>	<b>2.6</b>		2.6	0.49	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Cadmium</b>	<b>0.17</b>		0.11	0.026	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Calcium</b>	<b>29000</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Chromium</b>	<b>7.3</b>		0.53	0.088	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Cobalt</b>	<b>4.7</b>		0.26	0.028	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Copper</b>	<b>4.9</b>		0.53	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Iron</b>	<b>8400</b>		11	4.6	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Lead</b>	<b>6.3</b>		0.26	0.090	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Magnesium</b>	<b>2900</b>	<b>B</b>	5.3	1.0	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Manganese</b>	<b>76</b>		0.53	0.074	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Nickel</b>	<b>9.9</b>		0.53	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Potassium</b>	<b>540</b>		26	3.0	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
Silver	<0.26		0.26	0.032	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Sodium</b>	<b>310</b>	<b>B</b>	53	9.6	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Vanadium</b>	<b>12</b>		0.26	0.040	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1
<b>Zinc</b>	<b>22</b>		1.1	0.36	mg/Kg	☼	11/14/12 16:00	11/21/12 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 08:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 08:21	1
<b>Boron</b>	<b>1.4</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 08:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 08:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-1**

**Lab Sample ID: 500-52302-37**

Date Collected: 11/13/12 14:40

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:21	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:21	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 08:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 08:21	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:21	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:21	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 08:21	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:21	1
<b>Zinc</b>	<b>0.021</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 08:21	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		11/19/12 15:30	12/01/12 20:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000079</b>	<b>J B *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:54	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0063	mg/Kg	☼	11/28/12 18:00	11/29/12 12:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.36</b>		0.200	0.200	SU			11/19/12 09:43	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-2**

**Lab Sample ID: 500-52302-38**

Date Collected: 11/13/12 14:50

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/13/12 14:50	11/19/12 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		76 - 120	11/13/12 14:50	11/19/12 19:33	1
Dibromofluoromethane	105		73 - 122	11/13/12 14:50	11/19/12 19:33	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	11/13/12 14:50	11/19/12 19:33	1
Toluene-d8 (Surr)	101		72 - 122	11/13/12 14:50	11/19/12 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-2**

**Lab Sample ID: 500-52302-38**

Date Collected: 11/13/12 14:50

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-2**

**Lab Sample ID: 500-52302-38**

Date Collected: 11/13/12 14:50

Matrix: Solid

Date Received: 11/13/12 16:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/27/12 17:43	12/06/12 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110	11/27/12 17:43	12/06/12 20:17	1
Phenol-d5	52		31 - 110	11/27/12 17:43	12/06/12 20:17	1
Nitrobenzene-d5	52		30 - 115	11/27/12 17:43	12/06/12 20:17	1
2-Fluorobiphenyl	65		30 - 119	11/27/12 17:43	12/06/12 20:17	1
2,4,6-Tribromophenol	66		35 - 137	11/27/12 17:43	12/06/12 20:17	1
Terphenyl-d14	75		36 - 134	11/27/12 17:43	12/06/12 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Arsenic</b>	<b>4.0</b>		0.57	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Barium</b>	<b>11</b>		0.57	0.068	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Beryllium</b>	<b>0.21</b>	<b>J</b>	0.23	0.017	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Boron</b>	<b>1.7</b>	<b>J</b>	2.9	0.53	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Cadmium</b>	<b>0.046</b>	<b>J</b>	0.11	0.028	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Calcium</b>	<b>11000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Chromium</b>	<b>4.4</b>		0.57	0.095	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Cobalt</b>	<b>3.7</b>		0.29	0.030	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Copper</b>	<b>5.0</b>		0.57	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Iron</b>	<b>6500</b>		11	4.9	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Lead</b>	<b>5.4</b>		0.29	0.098	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Magnesium</b>	<b>6600</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Manganese</b>	<b>69</b>		0.57	0.080	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Nickel</b>	<b>7.9</b>		0.57	0.12	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Potassium</b>	<b>300</b>		29	3.2	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Sodium</b>	<b>130</b>	<b>B</b>	57	10	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Vanadium</b>	<b>10</b>		0.29	0.043	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1
<b>Zinc</b>	<b>17</b>		1.1	0.39	mg/Kg	☼	11/14/12 16:00	11/21/12 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 08:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 08:27	1
<b>Boron</b>	<b>0.86</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 08:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 08:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

**Client Sample ID: 2034A-9-B02-2**

**Lab Sample ID: 500-52302-38**

Date Collected: 11/13/12 14:50

Matrix: Solid

Date Received: 11/13/12 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:27	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:27	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:27	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 08:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 08:27	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:27	1
<b>Nickel</b>	<b>0.058</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 08:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 08:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 08:27	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 08:27	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		11/19/12 15:30	12/01/12 20:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000078</b>	<b>J B *</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:56	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0071	mg/Kg	☼	11/28/12 18:00	11/29/12 12:12	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			11/19/12 09:46	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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	Duplicate RPD exceeds the control limit
F	RPD of the MS and MSD exceeds the control limits
*	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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52302-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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: WO #053 R+30  
 Project No.: IDOT2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other

COC No.: 3 of 4  
 Lab Job No.: 500-52302  
 Sample Temp: \_\_\_\_\_

Sampler: SR/cw

**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	2034A-3-B03-2	11/13/12	12:30	S	X	X					X	X	X	X		4-8'		
26	2034A-7-801-1		12:40	S	X	X					X	X	X	X		0-4'		
27	2034A-7-B01-2		12:50	S	X	X					X	X	X	X		4-8'		
28	2034A-7-901		1:00	W	X	X					X	X	X	X		13.6'		
29	2034A-7-B02-1		1:10	S	X	X					X	X	X	X		0-4'		
30	2034A-7-B02-2		1:20	S	X	X					X	X	X	X		4-8'		
31	2034A-9-B03-1		1:30	S	X	X					X	X	X	X		0-4'		
32	2034A-9-B03-2		1:40	S	X	X					X	X	X	X		4-8'		
33	2034A-9-B01-1		1:50	S	X	X					X	X	X	X		0-4'		
34	2034A-9-B01-10UP		2:00	S	X	X					X	X	X	X		0-4'		
35	2034A-9-B01-2		2:10	S	X	X					X	X	X	X		4-8'		
36	2034A-9-901		3:00	W	X	X					X	X	X	X		11.05'		
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time	11/13/12 1530
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time	11/13/12 1615
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>											Date/Time	11/13/12 1615



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: Rx 30  
 Project No.: IDOT2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other

COC No.: 4 of 4  
 Lab Job No.: 500-52302  
 Sample Temp.

Sampler: SPR/cm

**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			
37	2034A-9-B02-1	11/13/12	2:40	S	X	X					X	X	X	X		0-4'			
38	2034A-9-B02-2	"	2:50	S	X	X					X	X	X	X		4-8'			
39	Trip Blank															Added by TA			
Relinquished by:	<i>[Signature]</i>				11/13/12	3:30										Received by:	<i>[Signature]</i>	11/13/12	1530
Relinquished by:	<i>[Signature]</i>				11/13/12	1615										Received by:	<i>[Signature]</i>	11/13/12	1615
Relinquished by:	<i>[Signature]</i>															Received by:			

**Matrix Key:**  
 W - Water  
 S - Soil  
 SL - Sludge  
 SE - Sediment  
 L - Leachate  
 DW - Drinking Water  
 OL - Oil  
 O - Other



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:** IDOT2011-053

**WorkOrder:** 13120032

Dear Colleen Grey:

TEKLAB, INC received 7 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120032

**Client Project:** IDOT2011-053

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

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	12
Receiving Check List	13
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120032

**Client Project:** IDOT2011-053

**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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120032

**Client Project:** IDOT2011-053

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

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120032-001

Client Sample ID: 2034A-9-B01-1

Matrix: SOLID

Collection Date: 11/27/2013 8:25

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	0.0016	0.005		<b>0.0217</b>	mg/L	1	12/05/2013 19:37	94315



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120032-002

Client Sample ID: 2034A-9-B01-1 DUP

Matrix: SOLID

Collection Date: 11/27/2013 8:25

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	0.0016	0.005		<b>0.0146</b>	mg/L	1	12/05/2013 20:08	94315



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120032-003

Client Sample ID: 2034A-9-B01-2

Matrix: SOLID

Collection Date: 11/27/2013 8:30

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>0.0318</b>	mg/L	1	12/05/2013 20:14	94315



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120032-004

Client Sample ID: 2034A-9-B02-1

Matrix: SOLID

Collection Date: 11/27/2013 8:35

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>0.019</b>	mg/L	1	12/05/2013 20:20	94315





## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120032-005

Client Sample ID: 2034A-9-B02-2

Matrix: SOLID

Collection Date: 11/27/2013 8:40

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>0.0456</b>	mg/L	1	12/05/2013 20:26	94315



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120032-006

Client Sample ID: 2034A-9-B03-1

Matrix: SOLID

Collection Date: 11/27/2013 8:15

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>0.0692</b>	mg/L	1	12/05/2013 20:32	94315



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120032-007

Client Sample ID: 2034A-9-B03-2

Matrix: SOLID

Collection Date: 11/27/2013 8:20

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		<b>0.104</b>	mg/L	1	12/05/2013 20:38	94315



## Quality Control Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120032

Client Project: IDOT2011-053

Report Date: 09-Dec-13

### SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP

Batch 94315		SampType: MBLK		Units mg/L						
SampID: MBLK-94315										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Manganese	0.005		< 0.005	0.005	0	0	-100	100	12/05/2013	

Batch 94315		SampType: LCS		Units mg/L						
SampID: LCS-94315										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Manganese	0.005		0.54	0.5	0	107.9	85	115	12/05/2013	

Batch 94315		SampType: MS		Units mg/L						
SampID: 13120032-001AMS										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Manganese	0.005		0.553	0.5	0.0217	106.3	75	125	12/05/2013	

Batch 94315		SampType: MSD		Units mg/L				RPD Limit 20		Date Analyzed	
SampID: 13120032-001AMSD											
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Manganese	0.005		0.555	0.5	0.0217	106.6	0.5532	0.29	12/05/2013		



# 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: <u>TestAmerica - Chicago</u> <u>Teklab</u> Address: <u>2417 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-534-5200</u> Contact: <u>Dick Wright</u> email: <u>dickwright@testamericainc.com</u>	Project Name: <u>IL 30 Cook Co.</u> Project No.: <u>FDOT 2011-053</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>CM</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13120032</u> Sample Temp: <u>5.0°C, 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	
13120032-001	2034 A-9- B01-1	11/27/10	825	S											X SPLP Mn/TKCLP		
002	2034 A-9- B01-1 DUP		825	S											X		
003	2034 A-9- B01-2		430	S											X		
004	2034 A-9- B02-1		435	S											X		
005	2034 A-9- B02-2		440	S											X		
006	2034 A-9- B03-1		415	S											X		
007	2034 A-9- B03-2		420	S											X		
					Received by: <u>[Signature]</u> Date/Time: <u>11/27/10 4:00pm</u>												
					Received by: <u>[Signature]</u> Date/Time: <u>12/15 1:20</u>												
					Received by: <u>[Signature]</u> Date/Time: <u>12/13 1:20</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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21706 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50086 Longitude: -87.52959  
(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: 0311683002 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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)  
 Latitude: 41.50086 Longitude: -87.52959

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 2034/A-10-B02 THROUGH -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-10. SEE FIGURE 2 AND TABLE 5h 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: 500-52356. TEKLAB WORK ORDER NO.: 13120033.

**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

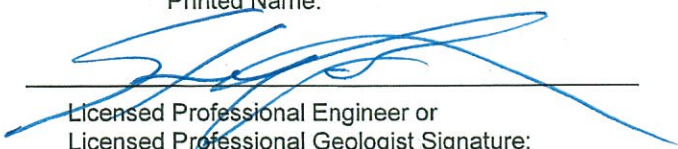
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

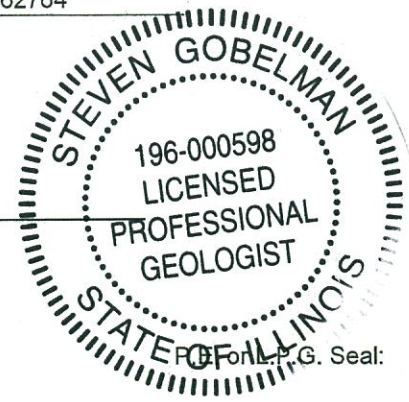
Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

3/17/14  
 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
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 2034A-10**

**Busch Plastics**

Sample ID	2034A-10-B02-1	2034A-10-B02-2	2034A-10-B03-1	2034A-10-B03-2	2034A-10-B04-1	2034A-10-B04-2						
Sample Depth (ft)	0-5	5-10	0-5	5-10	0-5	5-10	<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
Sample Date	11/14/2012	11/14/2012	11/14/2012	11/14/2012	11/14/2012	11/14/2012						
PID	0	0	0	0	0	0						
Sample pH	8.19	8.43	8.44	7.88	8.88	8.66						
Matrix	Soil	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: 500-52356-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/11/2012 9:16:59 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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-1**

**Lab Sample ID: 500-52356-3**

Date Collected: 11/14/12 08:00

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Chloroethane	<0.0042		0.0042	0.0011	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	11/14/12 08:00	11/20/12 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		76 - 120	11/14/12 08:00	11/20/12 11:58	1
Dibromofluoromethane	107		73 - 122	11/14/12 08:00	11/20/12 11:58	1
1,2-Dichloroethane-d4 (Surr)	106		74 - 123	11/14/12 08:00	11/20/12 11:58	1
Toluene-d8 (Surr)	110		72 - 122	11/14/12 08:00	11/20/12 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-1**

**Lab Sample ID: 500-52356-3**

Date Collected: 11/14/12 08:00

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
<b>Naphthalene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
<b>Di-n-butyl phthalate</b>	<b>0.082</b>	<b>J</b>	0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
<b>Pyrene</b>	<b>0.015</b>	<b>J</b>	0.039	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-1**

**Lab Sample ID: 500-52356-3**

Date Collected: 11/14/12 08:00

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
<b>Benzo[a]pyrene</b>	<b>0.0072</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/28/12 16:54	12/07/12 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		30 - 110				11/28/12 16:54	12/07/12 16:53	1
Phenol-d5	88		31 - 110				11/28/12 16:54	12/07/12 16:53	1
Nitrobenzene-d5	75		30 - 115				11/28/12 16:54	12/07/12 16:53	1
2-Fluorobiphenyl	93		30 - 119				11/28/12 16:54	12/07/12 16:53	1
2,4,6-Tribromophenol	94		35 - 137				11/28/12 16:54	12/07/12 16:53	1
Terphenyl-d14	114		36 - 134				11/28/12 16:54	12/07/12 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.18</b>	<b>J</b>	1.2	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Arsenic</b>	<b>3.5</b>		0.59	0.13	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Barium</b>	<b>72</b>		0.59	0.070	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Beryllium</b>	<b>0.72</b>		0.24	0.017	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Boron</b>	<b>4.8</b>		3.0	0.55	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Cadmium</b>	<b>0.30</b>		0.12	0.029	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Calcium</b>	<b>6400</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Chromium</b>	<b>14</b>		0.59	0.099	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Cobalt</b>	<b>4.9</b>		0.30	0.031	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Copper</b>	<b>15</b>		0.59	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Iron</b>	<b>12000</b>		12	5.1	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Lead</b>	<b>15</b>		0.30	0.10	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Magnesium</b>	<b>3700</b>		5.9	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Manganese</b>	<b>87</b>		0.59	0.083	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Nickel</b>	<b>14</b>		0.59	0.13	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Potassium</b>	<b>1200</b>		30	3.3	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Sodium</b>	<b>100</b>	<b>B</b>	59	11	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Vanadium</b>	<b>20</b>		0.30	0.045	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1
<b>Zinc</b>	<b>37</b>		1.2	0.41	mg/Kg	☼	11/15/12 08:29	11/29/12 05:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 15:30	11/29/12 01:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 01:55	1
<b>Boron</b>	<b>0.77</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 01:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 01:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-1**

**Lab Sample ID: 500-52356-3**

Date Collected: 11/14/12 08:00

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 01:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 01:55	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 01:55	1
<b>Iron</b>	<b>0.55</b>		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 01:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 01:55	1
<b>Manganese</b>	<b>0.041</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 01:55	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 01:55	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 01:55	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 01:55	1
Zinc	<0.10		0.10	0.020	mg/L		11/20/12 15:30	11/29/12 01:55	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		11/20/12 15:30	12/04/12 17:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000087</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:13	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0072	mg/Kg	☆	11/28/12 18:00	11/29/12 12:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.19</b>		0.200	0.200	SU			11/20/12 07:23	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-2**

**Lab Sample ID: 500-52356-4**

**Date Collected: 11/14/12 08:05**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 82.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Chloroethane	<0.0050		0.0050	0.0013	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/14/12 08:05	11/20/12 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 120	11/14/12 08:05	11/20/12 12:21	1
Dibromofluoromethane	103		73 - 122	11/14/12 08:05	11/20/12 12:21	1
1,2-Dichloroethane-d4 (Surr)	102		74 - 123	11/14/12 08:05	11/20/12 12:21	1
Toluene-d8 (Surr)	109		72 - 122	11/14/12 08:05	11/20/12 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-2**

**Lab Sample ID: 500-52356-4**

Date Collected: 11/14/12 08:05

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Carbazole	<0.20		0.20	0.055	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Pyrene	<0.039		0.039	0.014	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	*	11/28/12 16:54	12/07/12 17:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-2**

**Lab Sample ID: 500-52356-4**

Date Collected: 11/14/12 08:05

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/28/12 16:54	12/07/12 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	11/28/12 16:54	12/07/12 17:13	1
Phenol-d5	62		31 - 110	11/28/12 16:54	12/07/12 17:13	1
Nitrobenzene-d5	53		30 - 115	11/28/12 16:54	12/07/12 17:13	1
2-Fluorobiphenyl	64		30 - 119	11/28/12 16:54	12/07/12 17:13	1
2,4,6-Tribromophenol	53		35 - 137	11/28/12 16:54	12/07/12 17:13	1
Terphenyl-d14	76		36 - 134	11/28/12 16:54	12/07/12 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Arsenic</b>	<b>3.8</b>		0.57	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Barium</b>	<b>55</b>		0.57	0.068	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Beryllium</b>	<b>0.39</b>		0.23	0.017	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Boron</b>	<b>2.5 J</b>		2.9	0.53	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Cadmium</b>	<b>0.042 J</b>		0.11	0.028	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Calcium</b>	<b>2100 B</b>		11	2.0	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Chromium</b>	<b>8.6</b>		0.57	0.095	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Cobalt</b>	<b>3.6</b>		0.29	0.030	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Copper</b>	<b>10</b>		0.57	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Iron</b>	<b>8300</b>		11	4.9	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Lead</b>	<b>8.4</b>		0.29	0.098	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Magnesium</b>	<b>1700</b>		5.7	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Manganese</b>	<b>44</b>		0.57	0.080	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Nickel</b>	<b>9.4</b>		0.57	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Potassium</b>	<b>510</b>		29	3.2	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Sodium</b>	<b>74 B</b>		57	10	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Vanadium</b>	<b>14</b>		0.29	0.043	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1
<b>Zinc</b>	<b>21</b>		1.1	0.39	mg/Kg	☼	11/15/12 08:29	11/29/12 05:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.62</b>		0.50	0.010	mg/L		11/20/12 15:30	11/29/12 02:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 02:01	1
<b>Boron</b>	<b>0.96</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 02:01	1
<b>Cadmium</b>	<b>0.0029 J</b>		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 02:01	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B02-2**

**Lab Sample ID: 500-52356-4**

Date Collected: 11/14/12 08:05

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:01	1
<b>Cobalt</b>	<b>0.024</b>	<b>J</b>	0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:01	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:01	1
<b>Iron</b>	<b>1.3</b>		0.20	0.20	mg/L		11/30/12 15:00	12/03/12 14:01	1
<b>Lead</b>	<b>0.0088</b>		0.0075	0.0050	mg/L		11/30/12 15:00	12/03/12 14:01	1
<b>Manganese</b>	<b>4.5</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:01	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:01	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 02:01	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:01	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		11/20/12 15:30	11/29/12 02:01	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		11/20/12 15:30	12/04/12 17:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:12	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		11/30/12 15:00	12/03/12 10:18	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0073	mg/Kg	☆	11/28/12 18:00	11/29/12 12:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.43</b>		0.200	0.200	SU			11/20/12 07:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-1**

**Lab Sample ID: 500-52356-5**

**Date Collected: 11/14/12 08:10**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 92.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/14/12 08:10	11/20/12 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	11/14/12 08:10	11/20/12 12:44	1
Dibromofluoromethane	104		73 - 122	11/14/12 08:10	11/20/12 12:44	1
1,2-Dichloroethane-d4 (Surr)	109		74 - 123	11/14/12 08:10	11/20/12 12:44	1
Toluene-d8 (Surr)	110		72 - 122	11/14/12 08:10	11/20/12 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-1**

**Lab Sample ID: 500-52356-5**

**Date Collected: 11/14/12 08:10**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 92.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Naphthalene</b>	<b>0.013</b>	<b>J</b>	0.035	0.0068	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Phenanthrene</b>	<b>0.022</b>	<b>J</b>	0.035	0.015	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Fluoranthene</b>	<b>0.045</b>		0.035	0.014	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Pyrene</b>	<b>0.065</b>		0.035	0.013	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.035	0.0074	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Chrysene</b>	<b>0.052</b>		0.035	0.0080	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-1**

**Lab Sample ID: 500-52356-5**

Date Collected: 11/14/12 08:10

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Benzo[b]fluoranthene</b>	<b>0.056</b>		0.035	0.0069	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Benzo[k]fluoranthene</b>	<b>0.035</b>		0.035	0.0084	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Benzo[a]pyrene</b>	<b>0.064</b>		0.035	0.0064	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.048</b>		0.035	0.012	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Dibenz[a,h]anthracene</b>	<b>0.017 J</b>		0.035	0.0099	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
<b>Benzo[g,h,i]perylene</b>	<b>0.083</b>		0.035	0.012	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/28/12 16:54	12/10/12 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110				11/28/12 16:54	12/10/12 12:22	1
Phenol-d5	59		31 - 110				11/28/12 16:54	12/10/12 12:22	1
Nitrobenzene-d5	46		30 - 115				11/28/12 16:54	12/10/12 12:22	1
2-Fluorobiphenyl	61		30 - 119				11/28/12 16:54	12/10/12 12:22	1
2,4,6-Tribromophenol	55		35 - 137				11/28/12 16:54	12/10/12 12:22	1
Terphenyl-d14	74		36 - 134				11/28/12 16:54	12/10/12 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.3		5.3	0.70	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Arsenic</b>	<b>1.6 J</b>		2.6	0.57	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Barium</b>	<b>19</b>		2.6	0.31	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Beryllium</b>	<b>0.35 J</b>		1.1	0.077	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Boron</b>	<b>8.9 J</b>		13	2.5	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
Cadmium	<0.53		0.53	0.13	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Calcium</b>	<b>150000 B</b>		53	9.3	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Chromium</b>	<b>3.8</b>		2.6	0.44	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Cobalt</b>	<b>1.3</b>		1.3	0.14	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Copper</b>	<b>3.5</b>		2.6	0.71	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Iron</b>	<b>3200</b>		53	23	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Lead</b>	<b>14</b>		1.3	0.45	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Magnesium</b>	<b>86000</b>		26	5.1	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Manganese</b>	<b>360</b>		2.6	0.37	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Nickel</b>	<b>4.5</b>		2.6	0.58	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Potassium</b>	<b>450</b>		130	15	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
Selenium	<2.6		2.6	0.76	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
Silver	<1.3		1.3	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Sodium</b>	<b>320 B</b>		260	48	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
Thallium	<2.6		2.6	0.68	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Vanadium</b>	<b>8.9</b>		1.3	0.20	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5
<b>Zinc</b>	<b>14</b>		5.3	1.8	mg/Kg	☼	11/15/12 08:29	11/29/12 08:00	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.12 J</b>		0.50	0.010	mg/L		11/20/12 15:30	11/29/12 02:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 02:22	1
<b>Boron</b>	<b>0.70</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 02:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 02:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-1**

**Lab Sample ID: 500-52356-5**

Date Collected: 11/14/12 08:10

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:22	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:22	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:22	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 02:22	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 02:22	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:22	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:22	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 02:22	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:22	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		11/20/12 15:30	11/29/12 02:22	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		11/20/12 15:30	12/04/12 17:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000084</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:21	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0065	mg/Kg	☆	11/28/12 18:00	11/29/12 12:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.88</b>		0.200	0.200	SU			11/20/12 07:30	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-2**

**Lab Sample ID: 500-52356-6**

Date Collected: 11/14/12 08:15

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0047	0.0020	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	11/14/12 08:15	11/21/12 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	11/14/12 08:15	11/21/12 11:19	1
Dibromofluoromethane	105		73 - 122	11/14/12 08:15	11/21/12 11:19	1
1,2-Dichloroethane-d4 (Surr)	104		74 - 123	11/14/12 08:15	11/21/12 11:19	1
Toluene-d8 (Surr)	110		72 - 122	11/14/12 08:15	11/21/12 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-2**

**Lab Sample ID: 500-52356-6**

Date Collected: 11/14/12 08:15

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
<b>Chrysene</b>	<b>0.0092</b>	<b>J</b>	0.038	0.0086	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-2**

**Lab Sample ID: 500-52356-6**

Date Collected: 11/14/12 08:15

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
<b>Benzo[g,h,i]perylene</b>	<b>0.013</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/28/12 16:54	12/07/12 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 110	11/28/12 16:54	12/07/12 17:55	1
Phenol-d5	63		31 - 110	11/28/12 16:54	12/07/12 17:55	1
Nitrobenzene-d5	57		30 - 115	11/28/12 16:54	12/07/12 17:55	1
2-Fluorobiphenyl	72		30 - 119	11/28/12 16:54	12/07/12 17:55	1
2,4,6-Tribromophenol	66		35 - 137	11/28/12 16:54	12/07/12 17:55	1
Terphenyl-d14	85		36 - 134	11/28/12 16:54	12/07/12 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Arsenic</b>	<b>6.7</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Barium</b>	<b>130</b>		0.56	0.067	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Beryllium</b>	<b>0.86</b>		0.23	0.017	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Boron</b>	<b>6.2</b>		2.8	0.53	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Cadmium</b>	<b>0.55</b>		0.11	0.028	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Calcium</b>	<b>6000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Chromium</b>	<b>21</b>		0.56	0.094	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Cobalt</b>	<b>36</b>		0.28	0.030	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Copper</b>	<b>16</b>		0.56	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Iron</b>	<b>20000</b>		11	4.9	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Lead</b>	<b>19</b>		0.28	0.097	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Magnesium</b>	<b>6300</b>		5.6	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Manganese</b>	<b>1200</b>		5.6	0.79	mg/Kg	☼	11/15/12 08:29	11/29/12 08:31	10
<b>Nickel</b>	<b>33</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Potassium</b>	<b>1700</b>		28	3.2	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Sodium</b>	<b>550</b>	<b>B</b>	56	10	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.56	0.14	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Vanadium</b>	<b>25</b>		0.28	0.043	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1
<b>Zinc</b>	<b>46</b>		1.1	0.39	mg/Kg	☼	11/15/12 08:29	11/29/12 05:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 15:30	11/29/12 02:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 02:28	1
<b>Boron</b>	<b>0.89</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 02:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 02:28	1

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# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B04-2**

**Lab Sample ID: 500-52356-6**

Date Collected: 11/14/12 08:15

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:28	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:28	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:28	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 02:28	1
<b>Lead</b>	<b>0.0064</b>	<b>J</b>	0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 02:28	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:28	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:28	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 02:28	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:28	1
<b>Zinc</b>	<b>0.053</b>	<b>J</b>	0.10	0.020	mg/L		11/20/12 15:30	11/29/12 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.086</b>		0.025	0.010	mg/L		12/05/12 07:45	12/05/12 21:24	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		11/20/12 15:30	12/04/12 17:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000090</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:27	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0069	mg/Kg	☼	11/28/12 18:00	11/29/12 12:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.66</b>		0.200	0.200	SU			11/20/12 07:33	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-1**

**Lab Sample ID: 500-52356-10**

Date Collected: 11/14/12 08:40

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/14/12 08:40	11/21/12 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		76 - 120	11/14/12 08:40	11/21/12 11:42	1
Dibromofluoromethane	103		73 - 122	11/14/12 08:40	11/21/12 11:42	1
1,2-Dichloroethane-d4 (Surr)	110		74 - 123	11/14/12 08:40	11/21/12 11:42	1
Toluene-d8 (Surr)	111		72 - 122	11/14/12 08:40	11/21/12 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-1**

**Lab Sample ID: 500-52356-10**

Date Collected: 11/14/12 08:40

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Phenanthrene</b>	<b>0.089</b>		0.037	0.015	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Anthracene</b>	<b>0.011 J</b>		0.037	0.0087	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Fluoranthene</b>	<b>0.038</b>		0.037	0.015	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Pyrene</b>	<b>0.043</b>		0.037	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Benzo[a]anthracene</b>	<b>0.013 J</b>		0.037	0.0077	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Chrysene</b>	<b>0.015 J</b>		0.037	0.0083	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-1**

**Lab Sample ID: 500-52356-10**

Date Collected: 11/14/12 08:40

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Benzo[b]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Benzo[k]fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.037	0.0088	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Benzo[a]pyrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.0067	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.015</b>	<b>J</b>	0.037	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Benzo[g,h,i]perylene</b>	<b>0.026</b>	<b>J</b>	0.037	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/28/12 16:54	12/07/12 19:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	74		30 - 110				11/28/12 16:54	12/07/12 19:19	1
Phenol-d5	77		31 - 110				11/28/12 16:54	12/07/12 19:19	1
Nitrobenzene-d5	56		30 - 115				11/28/12 16:54	12/07/12 19:19	1
2-Fluorobiphenyl	76		30 - 119				11/28/12 16:54	12/07/12 19:19	1
2,4,6-Tribromophenol	77		35 - 137				11/28/12 16:54	12/07/12 19:19	1
Terphenyl-d14	92		36 - 134				11/28/12 16:54	12/07/12 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Arsenic</b>	<b>1.5</b>		0.55	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Barium</b>	<b>24</b>		0.55	0.065	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Beryllium</b>	<b>0.22</b>		0.22	0.016	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Boron</b>	<b>2.0</b>	<b>J</b>	2.7	0.51	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
Cadmium	<0.11		0.11	0.027	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Calcium</b>	<b>5900</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Chromium</b>	<b>5.1</b>		0.55	0.091	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Cobalt</b>	<b>1.6</b>		0.27	0.029	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Copper</b>	<b>3.3</b>		0.55	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Iron</b>	<b>3500</b>		11	4.7	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Lead</b>	<b>5.1</b>		0.27	0.094	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Magnesium</b>	<b>3700</b>		5.5	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Manganese</b>	<b>26</b>		0.55	0.077	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Nickel</b>	<b>4.8</b>		0.55	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Potassium</b>	<b>350</b>		27	3.1	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Sodium</b>	<b>260</b>	<b>B</b>	55	10	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Vanadium</b>	<b>7.5</b>		0.27	0.042	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1
<b>Zinc</b>	<b>12</b>		1.1	0.38	mg/Kg	☼	11/15/12 08:29	11/29/12 06:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 15:30	11/29/12 02:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 02:53	1
<b>Boron</b>	<b>0.56</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 02:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 02:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-1**

**Lab Sample ID: 500-52356-10**

Date Collected: 11/14/12 08:40

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:53	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:53	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 02:53	1
<b>Lead</b>	<b>0.0052</b>	<b>J</b>	0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 02:53	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:53	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:53	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 02:53	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:53	1
Zinc	<0.10		0.10	0.020	mg/L		11/20/12 15:30	11/29/12 02:53	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		11/20/12 15:30	12/04/12 17:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000079</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:34	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0067	mg/Kg	☆	11/28/12 18:00	11/29/12 13:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.44</b>		0.200	0.200	SU			11/20/12 07:46	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-2**

**Lab Sample ID: 500-52356-11**

**Date Collected: 11/14/12 08:45**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	11/14/12 08:45	11/20/12 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	11/14/12 08:45	11/20/12 15:04	1
Dibromofluoromethane	104		73 - 122	11/14/12 08:45	11/20/12 15:04	1
1,2-Dichloroethane-d4 (Surr)	102		74 - 123	11/14/12 08:45	11/20/12 15:04	1
Toluene-d8 (Surr)	108		72 - 122	11/14/12 08:45	11/20/12 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-2**

**Lab Sample ID: 500-52356-11**

Date Collected: 11/14/12 08:45

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
<b>Chrysene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0089	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-2**

**Lab Sample ID: 500-52356-11**

Date Collected: 11/14/12 08:45

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/28/12 16:54	12/07/12 19:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		30 - 110				11/28/12 16:54	12/07/12 19:40	1
Phenol-d5	68		31 - 110				11/28/12 16:54	12/07/12 19:40	1
Nitrobenzene-d5	54		30 - 115				11/28/12 16:54	12/07/12 19:40	1
2-Fluorobiphenyl	67		30 - 119				11/28/12 16:54	12/07/12 19:40	1
2,4,6-Tribromophenol	65		35 - 137				11/28/12 16:54	12/07/12 19:40	1
Terphenyl-d14	82		36 - 134				11/28/12 16:54	12/07/12 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Arsenic</b>	<b>3.0</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Barium</b>	<b>76</b>		0.56	0.067	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Beryllium</b>	<b>0.31</b>		0.23	0.017	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Boron</b>	<b>5.0</b>		2.8	0.53	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Cadmium</b>	<b>0.20</b>		0.11	0.028	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Calcium</b>	<b>29000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Chromium</b>	<b>6.5</b>		0.56	0.094	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Cobalt</b>	<b>6.8</b>		0.28	0.030	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Copper</b>	<b>15</b>		0.56	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Iron</b>	<b>9800</b>		11	4.9	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Lead</b>	<b>9.1</b>		0.28	0.097	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Magnesium</b>	<b>17000</b>		5.6	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Manganese</b>	<b>480</b>		0.56	0.080	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Nickel</b>	<b>15</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Potassium</b>	<b>1000</b>		28	3.2	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Sodium</b>	<b>140</b>	<b>B</b>	56	10	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
Thallium	<0.56		0.56	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Vanadium</b>	<b>10</b>		0.28	0.043	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1
<b>Zinc</b>	<b>25</b>		1.1	0.39	mg/Kg	☼	11/15/12 08:29	11/29/12 06:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.62</b>		0.50	0.010	mg/L		11/20/12 15:30	11/29/12 02:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 02:59	1
<b>Boron</b>	<b>0.76</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 02:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 02:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-10-B03-2**

**Lab Sample ID: 500-52356-11**

Date Collected: 11/14/12 08:45

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:59	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:59	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:59	1
<b>Iron</b>	<b>0.55</b>		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 02:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 02:59	1
<b>Manganese</b>	<b>4.2</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:59	1
<b>Nickel</b>	<b>0.038</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 02:59	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 02:59	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 02:59	1
<b>Zinc</b>	<b>0.071</b>	<b>J</b>	0.10	0.020	mg/L		11/20/12 15:30	11/29/12 02:59	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		11/20/12 15:30	12/04/12 17:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000087</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:36	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0078	mg/Kg	☼	11/28/12 18:00	11/29/12 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.88</b>		0.200	0.200	SU			11/20/12 07:50	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the 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.
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.
*	LCS or LCSD exceeds the control limits
F	Duplicate RPD exceeds the control limit
F	MS or 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

500-52356

<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>US RTE 30</u> Project No.: <u>IDOT2011-053</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>SSICM</u>		COC No.: <u>1</u> of <u>2</u> Lab Job No.: Sample Temp.:									
<b>Special Instructions:</b> See Table 2, 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>Comments</b>											
				<b>ANALYSES</b>											
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization
1	2034A-10-B05-1	11/14	7:45	S	✓	✓					✓	✓	✓	✓	
2	2034A-10-B05-2		7:50		✓	✓					✓	✓	✓	✓	
3	2034A-10-B02-1		8:00		✓	✓					✓	✓	✓	✓	
4	2034A-10-B02-2		8:05		✓	✓					✓	✓	✓	✓	
5	2034A-10-B04-1		8:10		✓	✓					✓	✓	✓	✓	
6	2034A-10-B04-2		8:15		✓	✓					✓	✓	✓	✓	
7	2034A-10-B01-1		8:20		✓	✓					✓	✓	✓	✓	
8	2034A-10-B01-DUP		8:25		✓	✓					✓	✓	✓	✓	
9	2034A-10-B01-2		8:30		✓	✓					✓	✓	✓	✓	
10	2034A-10-B03-1		8:40		✓	✓					✓	✓	✓	✓	
11	2034A-10-B03-2		8:45		✓	✓					✓	✓	✓	✓	
12	2034A-11-B02-1	11/14	9:00	S	✓	✓					✓	✓	✓	✓	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>11/14/12 11:40</u>		Received by: <u>[Signature]</u>		Date/Time: <u>11-14-12 13:00</u>									
Relinquished by: <u>[Signature]</u>		Date/Time: <u>11-14-12 13:00</u>		Received by: <u>[Signature]</u>		Date/Time: <u>11-14-12 13:00</u>									
Relinquished by:		Date/Time:		Received by:		Date/Time:									

December 11, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120033

Dear Colleen Grey:

TEKLAB, INC received 8 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120033

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	13
Receiving Check List	15
Chain of Custody	Appended



**Client:** Andrews Engineering, Inc.

**Work Order:** 13120033

**Client Project:** IDOT2011-053

**Report Date:** 11-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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120033

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120033

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120033-001

Client Sample ID: 2034A-10-B02-1

Matrix: SOLID

Collection Date: 11/27/2013 9:15

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>0.0774</b>	mg/L	1	12/06/2013 17:14	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120033

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120033-002

Client Sample ID: 2034A-10-B02-2

Matrix: SOLID

Collection Date: 11/27/2013 9:20

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		<b>0.139</b>	mg/L	1	12/06/2013 17:20	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120033

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120033-003

Client Sample ID: 2034A-10-B03-1

Matrix: SOLID

Collection Date: 11/27/2013 9:25

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	0.0016	0.005		<b>0.0973</b>	mg/L	1	12/06/2013 17:26	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120033

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120033-004

Client Sample ID: 2034A-10-B03-2

Matrix: SOLID

Collection Date: 11/27/2013 9:30

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>0.0121</b>	mg/L	1	12/06/2013 17:32	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.  
Client Project: IDOT2011-053  
Lab ID: 13120033-005  
Matrix: SOLID

Work Order: 13120033  
Report Date: 11-Dec-13  
Client Sample ID: 2034A-10-B04-1  
Collection Date: 11/27/2013 9:00

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	0.0016	0.005		<b>0.0457</b>	mg/L	1	12/06/2013 17:50	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120033

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120033-006

Client Sample ID: 2034A-10-B04-2

Matrix: SOLID

Collection Date: 11/27/2013 9:05

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	0.0016	0.005		0.117	mg/L	1	12/06/2013 18:09	94357





# 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: <del>Test America - Chicago</del> <b>Teklab</b> Address: <del>2417 Bond Street</del> <b>University Park, IL 60404</b> Phone: <del>708-534-5200</del> Contact: <b>Dick Wright</b> email: <del>dickwright@testamericainc.com</del>		Project Name: <b>IL 30 Cook Co.</b> Project No.: <b>IDOT 2011-053</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		COC No.: <u>1</u> of <u>1</u> Lab Job No.: <b>13120033</b> Sample Temp: <b>5.0°C</b> <b>ice</b>										
<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> VOCs SVOCs BETX & MTBE PNAS Pesticides PCBs * Total Metals SPLP/** TCLP Metals PH % Solids Waste Characterization		Matrix Key: W: Water S: Soil SL: Sludge S: Sediment L: Leachate DW: Drinking Water OL: Oil O: Other Comments										
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
1320033-001	2034A-10-B02-1	11/27/13	9:15	S											SPLP MN/** TCLP MN	
002	2034A-10-B02-2		9:20	S											X	
003	2034A-10-B03-1		9:25	S											X	
004	2034A-10-B03-2		9:30	S											X	
005	2034A-10-B04-1		9:00	S											X	
006	2034A-10-B04-2		9:05	S											X	
007	2034A-10-B05-1		9:15	S											X	
008	2034A-10-B05-2		9:50	S											X	
					Teklab, Inc. Courier Pick Up											
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										
					11/27/13 4:00pm	12/13 9:25										
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										
					12/13 12:21	12/13 12:20										
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										
						12/13 12:20										



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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21740 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.50028 Longitude: -87.52923  
(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: 0311680007 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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.50028 Longitude: -87.52923

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 2034/A-11-B01, -B02 AND -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-11. SEE FIGURE 2 AND TABLE 5i 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: 500-52356 AND 500-52267. TEKLAB WORK ORDER NO.: 13120034.

**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:

3/17/14

Date:



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

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

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,1,2-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 2034A-11

Holiday Boat Sales

Sample ID	2034A-11-B01-1	2034A-11-B01-1 DUP	2034A-11-B01-2	2034A-11-B02-1	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	5-10	0-5						
Sample Date	11/14/2012	11/14/2012	11/14/2012	11/14/2012						
PID	0	0	0	0						
Sample pH	8.08	7.93	8.09	8.06						
Matrix	Soil	Soil	Soil	Soil						
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>										
Benzo (a) pyrene	ND	ND	ND	ND	0.09	0.09	0.98	1.3	2.1	NA
Dibenzo (a,h) anthracene	ND	ND	ND	ND	0.09	0.09	0.15	0.2	0.42	NA
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>										
Arsenic	3.5	9.4	4	3.3	11.3	NA	11.3	NA	13	NA

Sample ID	2034A-11-B02-2	2034A-11-B04-1	2034A-11-B04-2	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							
Sample Date	11/14/2012	11/12/2012	11/12/2012							
PID	0	0	0							
Sample pH	8.27	8.8	8.11							
Matrix	Soil	Soil	Soil							
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>										
Benzo (a) pyrene	ND	0.43	1,2	J 0.01	0.09	0.09	0.98	1.3	2.1	NA
Dibenzo (a,h) anthracene	ND	J 0.098	1,2	ND	0.09	0.09	0.15	0.2	0.42	NA
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>										
Arsenic	12	1,3	5	3.7	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: 500-52356-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/11/2012 9:16:59 AM

Richard Wright  
Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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Have a Question?



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

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

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

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-1**

**Lab Sample ID: 500-52356-12**

**Date Collected: 11/14/12 09:00**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 86.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,1-Dichloroethane	<0.0048		0.0048	0.00075	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,2-Dichloropropane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0012	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00085	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg	☼	11/14/12 09:00	11/20/12 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		76 - 120	11/14/12 09:00	11/20/12 15:27	1
Dibromofluoromethane	107		73 - 122	11/14/12 09:00	11/20/12 15:27	1
1,2-Dichloroethane-d4 (Surr)	113		74 - 123	11/14/12 09:00	11/20/12 15:27	1
Toluene-d8 (Surr)	111		72 - 122	11/14/12 09:00	11/20/12 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-1**

**Lab Sample ID: 500-52356-12**

**Date Collected: 11/14/12 09:00**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 86.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Anthracene	<0.037		0.037	0.0089	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-1**

**Lab Sample ID: 500-52356-12**

Date Collected: 11/14/12 09:00

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/28/12 16:54	12/07/12 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110				11/28/12 16:54	12/07/12 20:01	1
Phenol-d5	69		31 - 110				11/28/12 16:54	12/07/12 20:01	1
Nitrobenzene-d5	51		30 - 115				11/28/12 16:54	12/07/12 20:01	1
2-Fluorobiphenyl	71		30 - 119				11/28/12 16:54	12/07/12 20:01	1
2,4,6-Tribromophenol	74		35 - 137				11/28/12 16:54	12/07/12 20:01	1
Terphenyl-d14	89		36 - 134				11/28/12 16:54	12/07/12 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Arsenic</b>	<b>3.3</b>		0.57	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Barium</b>	<b>54</b>		0.57	0.068	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.017	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Boron</b>	<b>5.6</b>		2.8	0.53	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Cadmium</b>	<b>0.094</b>	<b>J</b>	0.11	0.028	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Calcium</b>	<b>7800</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Chromium</b>	<b>13</b>		0.57	0.095	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Cobalt</b>	<b>5.2</b>		0.28	0.030	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Copper</b>	<b>9.2</b>		0.57	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Iron</b>	<b>11000</b>		11	4.9	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Lead</b>	<b>10</b>		0.28	0.098	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Magnesium</b>	<b>6400</b>		5.7	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Manganese</b>	<b>110</b>		0.57	0.080	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Nickel</b>	<b>13</b>		0.57	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Potassium</b>	<b>1200</b>		28	3.2	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Sodium</b>	<b>530</b>	<b>B</b>	57	10	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Vanadium</b>	<b>15</b>		0.28	0.043	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1
<b>Zinc</b>	<b>31</b>		1.1	0.39	mg/Kg	☼	11/15/12 08:29	11/29/12 06:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 15:30	11/29/12 03:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 03:06	1
<b>Boron</b>	<b>0.73</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 03:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 03:06	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-1**

**Lab Sample ID: 500-52356-12**

Date Collected: 11/14/12 09:00

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:06	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:06	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:06	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 03:06	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 03:06	1
<b>Manganese</b>	<b>0.043</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:06	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:06	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 03:06	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:06	1
Zinc	<0.10		0.10	0.020	mg/L		11/20/12 15:30	11/29/12 03:06	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		11/20/12 15:30	12/04/12 17:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000079</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0073	mg/Kg	☆	11/28/12 18:00	11/29/12 13:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.06</b>		0.200	0.200	SU			11/20/12 07:53	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-2**

**Lab Sample ID: 500-52356-13**

Date Collected: 11/14/12 09:05

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Carbon tetrachloride	<0.0044		0.0044	0.00079	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1
Xylenes, Total	<0.0087		0.0087	0.00040	mg/Kg	☼	11/14/12 09:05	11/21/12 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 120	11/14/12 09:05	11/21/12 12:05	1
Dibromofluoromethane	105		73 - 122	11/14/12 09:05	11/21/12 12:05	1
1,2-Dichloroethane-d4 (Surr)	104		74 - 123	11/14/12 09:05	11/21/12 12:05	1
Toluene-d8 (Surr)	109		72 - 122	11/14/12 09:05	11/21/12 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-2**

**Lab Sample ID: 500-52356-13**

Date Collected: 11/14/12 09:05

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-2**

**Lab Sample ID: 500-52356-13**

Date Collected: 11/14/12 09:05

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/28/12 16:54	12/07/12 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		30 - 110				11/28/12 16:54	12/07/12 20:22	1
Phenol-d5	56		31 - 110				11/28/12 16:54	12/07/12 20:22	1
Nitrobenzene-d5	48		30 - 115				11/28/12 16:54	12/07/12 20:22	1
2-Fluorobiphenyl	61		30 - 119				11/28/12 16:54	12/07/12 20:22	1
2,4,6-Tribromophenol	58		35 - 137				11/28/12 16:54	12/07/12 20:22	1
Terphenyl-d14	74		36 - 134				11/28/12 16:54	12/07/12 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Arsenic</b>	<b>12</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Barium</b>	<b>8.1</b>		0.56	0.066	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Beryllium</b>	<b>0.24</b>		0.22	0.016	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Boron</b>	<b>3.1</b>		2.8	0.52	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.028	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Chromium</b>	<b>4.9</b>		0.56	0.093	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Cobalt</b>	<b>7.8</b>		0.28	0.029	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Copper</b>	<b>9.7</b>		0.56	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Iron</b>	<b>10000</b>		11	4.8	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Lead</b>	<b>8.2</b>		0.28	0.096	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Magnesium</b>	<b>11000</b>		5.6	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Manganese</b>	<b>130</b>		0.56	0.079	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Nickel</b>	<b>14</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Potassium</b>	<b>540</b>		28	3.2	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Sodium</b>	<b>100</b>	<b>B</b>	56	10	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Vanadium</b>	<b>10</b>		0.28	0.042	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1
<b>Zinc</b>	<b>26</b>		1.1	0.38	mg/Kg	☼	11/15/12 08:29	11/29/12 06:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 15:30	11/29/12 03:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 03:12	1
<b>Boron</b>	<b>0.52</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 03:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 03:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B02-2**

**Lab Sample ID: 500-52356-13**

Date Collected: 11/14/12 09:05

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:12	1
<b>Cobalt</b>	<b>0.026</b>		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:12	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:12	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 03:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 03:12	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:12	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:12	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 03:12	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:12	1
Zinc	<0.10		0.10	0.020	mg/L		11/20/12 15:30	11/29/12 03:12	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		11/20/12 15:30	12/04/12 17:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000080</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:39	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0067	mg/Kg	☆	11/28/12 18:00	11/29/12 13:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.27</b>		0.200	0.200	SU			11/20/12 07:56	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1**

**Lab Sample ID: 500-52356-14**

**Date Collected: 11/14/12 09:10**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 85.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0043		0.0043	0.0019	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Benzene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	11/14/12 09:10	11/20/12 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		76 - 120	11/14/12 09:10	11/20/12 16:13	1
Dibromofluoromethane	105		73 - 122	11/14/12 09:10	11/20/12 16:13	1
1,2-Dichloroethane-d4 (Surr)	112		74 - 123	11/14/12 09:10	11/20/12 16:13	1
Toluene-d8 (Surr)	112		72 - 122	11/14/12 09:10	11/20/12 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1**

**Lab Sample ID: 500-52356-14**

**Date Collected: 11/14/12 09:10**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 85.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,4-Dinitrophenol	<0.77		0.77	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1**

**Lab Sample ID: 500-52356-14**

Date Collected: 11/14/12 09:10

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Benzo[a]pyrene	<0.038		0.038	0.0069	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/28/12 16:54	12/07/12 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110	11/28/12 16:54	12/07/12 20:43	1
Phenol-d5	58		31 - 110	11/28/12 16:54	12/07/12 20:43	1
Nitrobenzene-d5	50		30 - 115	11/28/12 16:54	12/07/12 20:43	1
2-Fluorobiphenyl	60		30 - 119	11/28/12 16:54	12/07/12 20:43	1
2,4,6-Tribromophenol	61		35 - 137	11/28/12 16:54	12/07/12 20:43	1
Terphenyl-d14	78		36 - 134	11/28/12 16:54	12/07/12 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Arsenic</b>	<b>3.5</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Barium</b>	<b>27</b>		0.56	0.067	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Beryllium</b>	<b>0.29</b>		0.22	0.016	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Boron</b>	<b>1.6 J</b>		2.8	0.52	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Calcium</b>	<b>980 B</b>		11	2.0	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Chromium</b>	<b>5.5</b>		0.56	0.093	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Cobalt</b>	<b>4.2</b>		0.28	0.029	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Copper</b>	<b>4.4</b>		0.56	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Iron</b>	<b>6300</b>		11	4.8	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Lead</b>	<b>4.7</b>		0.28	0.096	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Magnesium</b>	<b>910</b>		5.6	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Manganese</b>	<b>36</b>		0.56	0.079	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Nickel</b>	<b>8.9</b>		0.56	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Potassium</b>	<b>260</b>		28	3.2	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Sodium</b>	<b>51 J B</b>		56	10	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Vanadium</b>	<b>11</b>		0.28	0.042	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1
<b>Zinc</b>	<b>25</b>		1.1	0.38	mg/Kg	☼	11/15/12 08:29	11/29/12 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.29 J</b>		0.50	0.010	mg/L		11/20/12 15:30	11/29/12 03:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 03:18	1
<b>Boron</b>	<b>0.72</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 03:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 03:18	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1**

**Lab Sample ID: 500-52356-14**

Date Collected: 11/14/12 09:10

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:18	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:18	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 03:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 03:18	1
<b>Manganese</b>	<b>0.054</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:18	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:18	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 03:18	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:18	1
Zinc	<0.10		0.10	0.020	mg/L		11/20/12 15:30	11/29/12 03:18	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		11/20/12 15:30	12/04/12 17:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000082</b>	<b>J</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:41	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.014</b>	<b>J</b>	0.019	0.0071	mg/Kg	☼	11/28/12 18:00	11/29/12 13:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.08</b>		0.200	0.200	SU			11/20/12 08:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1 DUP**

**Lab Sample ID: 500-52356-15**

**Date Collected: 11/14/12 09:15**

**Matrix: Solid**

**Date Received: 11/14/12 13:00**

**Percent Solids: 83.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/14/12 09:15	11/20/12 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 120	11/14/12 09:15	11/20/12 16:36	1
Dibromofluoromethane	102		73 - 122	11/14/12 09:15	11/20/12 16:36	1
1,2-Dichloroethane-d4 (Surr)	106		74 - 123	11/14/12 09:15	11/20/12 16:36	1
Toluene-d8 (Surr)	109		72 - 122	11/14/12 09:15	11/20/12 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1 DUP**

**Lab Sample ID: 500-52356-15**

Date Collected: 11/14/12 09:15

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
<b>Naphthalene</b>	<b>0.016</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1 DUP**

**Lab Sample ID: 500-52356-15**

Date Collected: 11/14/12 09:15

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/28/12 16:54	12/07/12 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 110				11/28/12 16:54	12/07/12 21:04	1
Phenol-d5	72		31 - 110				11/28/12 16:54	12/07/12 21:04	1
Nitrobenzene-d5	58		30 - 115				11/28/12 16:54	12/07/12 21:04	1
2-Fluorobiphenyl	69		30 - 119				11/28/12 16:54	12/07/12 21:04	1
2,4,6-Tribromophenol	61		35 - 137				11/28/12 16:54	12/07/12 21:04	1
Terphenyl-d14	81		36 - 134				11/28/12 16:54	12/07/12 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Arsenic</b>	<b>9.4</b>		0.59	0.13	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Barium</b>	<b>37</b>		0.59	0.070	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Beryllium</b>	<b>0.25</b>		0.24	0.017	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Boron</b>	<b>1.9 J</b>		2.9	0.55	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Calcium</b>	<b>3000 B</b>		12	2.1	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Chromium</b>	<b>4.3</b>		0.59	0.098	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Cobalt</b>	<b>16</b>		0.29	0.031	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Copper</b>	<b>8.6</b>		0.59	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Iron</b>	<b>8700</b>		12	5.1	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Lead</b>	<b>6.9</b>		0.29	0.10	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Magnesium</b>	<b>2100</b>		5.9	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Manganese</b>	<b>320</b>		0.59	0.083	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Nickel</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Potassium</b>	<b>320</b>		29	3.3	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Sodium</b>	<b>49 J B</b>		59	11	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Vanadium</b>	<b>14</b>		0.29	0.045	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1
<b>Zinc</b>	<b>20</b>		1.2	0.40	mg/Kg	☼	11/15/12 08:29	11/29/12 07:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20 J</b>		0.50	0.010	mg/L		11/20/12 15:30	11/29/12 03:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 03:39	1
<b>Boron</b>	<b>1.5</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 03:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 03:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-1 DUP**

**Lab Sample ID: 500-52356-15**

Date Collected: 11/14/12 09:15

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:39	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:39	1
Iron	<0.20		0.20	0.20	mg/L		11/20/12 15:30	11/29/12 03:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 03:39	1
<b>Manganese</b>	<b>0.041</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:39	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 03:39	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:39	1
<b>Zinc</b>	<b>0.027 J</b>		0.10	0.020	mg/L		11/20/12 15:30	11/29/12 03:39	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		11/20/12 15:30	12/04/12 17:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000089 J</b>		0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:43	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0076	mg/Kg	☆	11/28/12 18:00	11/29/12 13:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.93</b>		0.200	0.200	SU			11/20/12 08:03	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-2**

**Lab Sample ID: 500-52356-16**

Date Collected: 11/14/12 09:20

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Ethylbenzene	<0.0046		0.0046	0.00092	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00092	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1
Xylenes, Total	<0.0092		0.0092	0.00041	mg/Kg	☼	11/14/12 09:20	11/20/12 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		76 - 120	11/14/12 09:20	11/20/12 17:00	1
Dibromofluoromethane	102		73 - 122	11/14/12 09:20	11/20/12 17:00	1
1,2-Dichloroethane-d4 (Surr)	105		74 - 123	11/14/12 09:20	11/20/12 17:00	1
Toluene-d8 (Surr)	110		72 - 122	11/14/12 09:20	11/20/12 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-2**

**Lab Sample ID: 500-52356-16**

Date Collected: 11/14/12 09:20

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-2**

**Lab Sample ID: 500-52356-16**

Date Collected: 11/14/12 09:20

Matrix: Solid

Date Received: 11/14/12 13:00

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/28/12 16:54	12/07/12 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110				11/28/12 16:54	12/07/12 21:25	1
Phenol-d5	58		31 - 110				11/28/12 16:54	12/07/12 21:25	1
Nitrobenzene-d5	48		30 - 115				11/28/12 16:54	12/07/12 21:25	1
2-Fluorobiphenyl	60		30 - 119				11/28/12 16:54	12/07/12 21:25	1
2,4,6-Tribromophenol	53		35 - 137				11/28/12 16:54	12/07/12 21:25	1
Terphenyl-d14	72		36 - 134				11/28/12 16:54	12/07/12 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Arsenic</b>	<b>4.0</b>		0.57	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Barium</b>	<b>28</b>		0.57	0.068	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Beryllium</b>	<b>0.38</b>		0.23	0.017	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Boron</b>	<b>5.7</b>		2.8	0.53	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Cadmium</b>	<b>0.20</b>		0.11	0.028	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Calcium</b>	<b>21000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Chromium</b>	<b>8.6</b>		0.57	0.095	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Cobalt</b>	<b>5.7</b>		0.28	0.030	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Copper</b>	<b>14</b>		0.57	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Iron</b>	<b>9600</b>		11	4.9	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Lead</b>	<b>8.1</b>		0.28	0.098	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Magnesium</b>	<b>11000</b>		5.7	1.1	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Manganese</b>	<b>170</b>		0.57	0.080	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Nickel</b>	<b>16</b>		0.57	0.12	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Potassium</b>	<b>1200</b>		28	3.2	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Sodium</b>	<b>130</b>	<b>B</b>	57	10	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Vanadium</b>	<b>12</b>		0.28	0.043	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1
<b>Zinc</b>	<b>34</b>		1.1	0.39	mg/Kg	☼	11/15/12 08:29	11/29/12 07:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.010	mg/L		11/20/12 15:30	11/29/12 03:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/20/12 15:30	11/29/12 03:45	1
<b>Boron</b>	<b>0.90</b>		0.50	0.050	mg/L		11/20/12 15:30	11/29/12 03:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/20/12 15:30	11/29/12 03:45	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

**Client Sample ID: 2034A-11-B01-2**

**Lab Sample ID: 500-52356-16**

Date Collected: 11/14/12 09:20

Matrix: Solid

Date Received: 11/14/12 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:45	1
Copper	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:45	1
<b>Iron</b>	<b>35</b>		0.20	0.20	mg/L		11/30/12 15:00	12/03/12 14:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/20/12 15:30	11/29/12 03:45	1
<b>Manganese</b>	<b>0.053</b>		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:45	1
Nickel	<0.025		0.025	0.010	mg/L		11/20/12 15:30	11/29/12 03:45	1
Selenium	<0.050		0.050	0.010	mg/L		11/20/12 15:30	11/29/12 03:45	1
Silver	<0.025		0.025	0.0050	mg/L		11/20/12 15:30	11/29/12 03:45	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		11/20/12 15:30	11/29/12 03:45	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		11/20/12 15:30	12/04/12 17:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/20/12 15:30	12/01/12 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000079</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/30/12 15:00	12/03/12 10:49	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0069	mg/Kg	☆	11/28/12 18:00	11/29/12 13:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.09</b>		0.200	0.200	SU			11/20/12 08:06	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52356-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the 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.
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.
*	LCS or LCSD exceeds the control limits
F	Duplicate RPD exceeds the control limit
F	MS or 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# CHAIN OF CUSTODY RECORD

500-52356

<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>US RTE 30</u> Project No.: <u>IDOT2011-053</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>SSICM</u>		COC No.: <u>1</u> of <u>2</u> Lab Job No.: Sample Temp.:										
<b>Special Instructions:</b> See Table 2, 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 / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	2034A-10-B05-1	11/14	7:45	S	✓	✓					✓	✓	✓	✓		0-5'
2	2034A-10-B05-2		7:50		✓	✓					✓	✓	✓	✓		5-10'
3	2034A-10-B02-1		8:00		✓	✓					✓	✓	✓	✓		0-5'
4	2034A-10-B02-2		8:05		✓	✓					✓	✓	✓	✓		5-10'
5	2034A-10-B04-1		8:10		✓	✓					✓	✓	✓	✓		0-5'
6	2034A-10-B04-2		8:15		✓	✓					✓	✓	✓	✓		5-10'
7	2034A-10-B01-1		8:20		✓	✓					✓	✓	✓	✓		0-5'
8	2034A-10-B01-DUP		8:25		✓	✓					✓	✓	✓	✓		0-5'
9	2034A-10-B01-2		8:30		✓	✓					✓	✓	✓	✓		5-10'
10	2034A-10-B03-1		8:40		✓	✓					✓	✓	✓	✓		0-5'
11	2034A-10-B03-2		8:45		✓	✓					✓	✓	✓	✓		5-10'
12	2034A-11-B02-1	11/14	9:00	S	✓	✓					✓	✓	✓	✓		0-5'
Relinquished by: <i>[Signature]</i>		Date/Time: 11/14/12 11:40		AEI		Received by: <i>[Signature]</i>		Date/Time: 11-14-12 12:11								
Relinquished by: <i>[Signature]</i>		Date/Time: 11-14-12 1:50		KSE		Received by: <i>[Signature]</i>		Date/Time: 11/14/12 13:00								
Relinquished by:		Date/Time:				Received by:		Date/Time:								



# CHAIN OF CUSTODY RECORD

500-52354

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>US RTE 30</u>	<b>COC No.:</b> <u>2</u> of <u>2</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.: <u>IDOT2011-053</u>	Lab Job No.:
		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.:
		<b>Sampler:</b> <u>SS/CM</u>	

**Special Instructions:**  
See Table A 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 / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	2034A-11-BO2-2	11/14	9:05	S	✓	✓					✓	✓	✓	✓		5-10'
14	2034A-11-BO1-1	11/14	9:10	S	✓	✓					✓	✓	✓	✓		0-5'
15	2034A-11-BO1-DUP	11/14	9:15	S	✓	✓					✓	✓	✓	✓		0-5'
16	2034A-11-BO1-2	11/14	9:20	S	✓	✓					✓	✓	✓	✓		5-10'
17	2034A-11-BO3-1	11/14	9:40	S	✓	✓					✓	✓	✓	✓		0-5'
18	2034A-11-BO3-2	11/14	9:45	S	✓	✓					✓	✓	✓	✓		5-10'
19	2034A-6-BO5-1	11/14	10:00	S	✓	✓					✓	✓	✓	✓		0-4'
20	2034A-6-BO5-2	11/14	10:15	S	✓	✓					✓	✓	✓	✓		4-8'
21	2034A-11-G01	11/14	11:20	W	X	X					X	X	X			5.3'
22	Tip Blank-1	11/14		W	X	X					X	X	X			

Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/14/12 11:40</u>	Date/Time: <u>11-14-12 11:10</u>
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-14-12 13:20</u>	Date/Time: <u>11/14/12 1300</u>
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-14-12</u>	Date/Time: <u>11-14-12</u>

# 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: 500-52267-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
12/6/2012 4:13:57 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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*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 Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-1**

**Lab Sample ID: 500-52267-15**

**Date Collected: 11/12/12 12:30**

**Matrix: Solid**

**Date Received: 11/13/12 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	<0.0047		0.0047	0.0020	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	11/12/12 12:30	11/16/12 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/12/12 12:30	11/16/12 05:23	1
Dibromofluoromethane	105		73 - 122	11/12/12 12:30	11/16/12 05:23	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/12/12 12:30	11/16/12 05:23	1
Toluene-d8 (Surr)	100		72 - 122	11/12/12 12:30	11/16/12 05:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.92		0.92	0.29	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
Bis(2-chloroethyl)ether	<0.92		0.92	0.27	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
1,3-Dichlorobenzene	<0.92		0.92	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
1,4-Dichlorobenzene	<0.92		0.92	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
1,2-Dichlorobenzene	<0.92		0.92	0.20	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-1**

**Lab Sample ID: 500-52267-15**

Date Collected: 11/12/12 12:30

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.92		0.92	0.24	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,2'-oxybis[1-chloropropane]	<0.92		0.92	0.20	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
N-Nitrosodi-n-propylamine	<0.92		0.92	0.23	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Hexachloroethane	<0.92		0.92	0.19	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2-Chlorophenol	<0.92		0.92	0.26	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Nitrobenzene	<0.18		0.18	0.057	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Bis(2-chloroethoxy)methane	<0.92		0.92	0.20	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
1,2,4-Trichlorobenzene	<0.92		0.92	0.21	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Isophorone	<0.92		0.92	0.20	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,4-Dimethylphenol	<1.8		1.8	0.57	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Hexachlorobutadiene	<0.92		0.92	0.24	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Naphthalene	<0.18		0.18	0.035	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,4-Dichlorophenol	<1.8		1.8	0.56	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
4-Chloroaniline	<3.7		3.7	0.56	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,4,6-Trichlorophenol	<1.8		1.8	0.23	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,4,5-Trichlorophenol	<1.8		1.8	0.52	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Hexachlorocyclopentadiene	<3.7		3.7	0.85	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2-Methylnaphthalene	<0.92		0.92	0.24	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2-Nitroaniline	<0.92		0.92	0.33	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2-Chloronaphthalene	<0.92		0.92	0.21	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
4-Chloro-3-methylphenol	<1.8		1.8	0.87	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,6-Dinitrotoluene	<0.92		0.92	0.22	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2-Nitrophenol	<1.8		1.8	0.29	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
3-Nitroaniline	<1.8		1.8	0.35	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Dimethyl phthalate	<0.92		0.92	0.23	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,4-Dinitrophenol	<3.7		3.7	0.93	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Acenaphthylene	<0.18		0.18	0.042	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
2,4-Dinitrotoluene	<0.92		0.92	0.28	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Acenaphthene	<0.18		0.18	0.055	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Dibenzofuran	<0.92		0.92	0.22	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
4-Nitrophenol	<3.7		3.7	0.98	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Fluorene	<0.18		0.18	0.042	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
4-Nitroaniline	<1.8		1.8	0.37	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
4-Bromophenyl phenyl ether	<0.92		0.92	0.20	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Hexachlorobenzene	<0.37		0.37	0.036	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Diethyl phthalate	<0.92		0.92	0.30	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
4-Chlorophenyl phenyl ether	<0.92		0.92	0.29	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Pentachlorophenol	<3.7		3.7	0.93	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
N-Nitrosodiphenylamine	<0.92		0.92	0.25	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.44	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
<b>Phenanthrene</b>	<b>0.47</b>		0.18	0.076	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
<b>Anthracene</b>	<b>0.10 J</b>		0.18	0.043	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Carbazole	<0.92		0.92	0.26	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Di-n-butyl phthalate	<0.92		0.92	0.23	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
<b>Fluoranthene</b>	<b>1.1</b>		0.18	0.075	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
<b>Pyrene</b>	<b>0.85</b>		0.18	0.066	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
Butyl benzyl phthalate	<0.92		0.92	0.23	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
<b>Benzo[a]anthracene</b>	<b>0.42</b>		0.18	0.038	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5
<b>Chrysene</b>	<b>0.51</b>		0.18	0.041	mg/Kg	*	11/26/12 07:16	12/06/12 01:18	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-1**

**Lab Sample ID: 500-52267-15**

Date Collected: 11/12/12 12:30

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.92		0.92	0.15	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
Bis(2-ethylhexyl) phthalate	<0.92		0.92	0.24	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
Di-n-octyl phthalate	<0.92		0.92	0.37	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
<b>Benzo[b]fluoranthene</b>	<b>0.54</b>		0.18	0.035	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
<b>Benzo[k]fluoranthene</b>	<b>0.35</b>		0.18	0.044	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
<b>Benzo[a]pyrene</b>	<b>0.43</b>		0.18	0.033	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.23</b>		0.18	0.062	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
<b>Dibenz(a,h)anthracene</b>	<b>0.098</b>	J	0.18	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
<b>Benzo[g,h,i]perylene</b>	<b>0.31</b>		0.18	0.062	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
3 & 4 Methylphenol	<0.92		0.92	0.35	mg/Kg	☼	11/26/12 07:16	12/06/12 01:18	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110				11/26/12 07:16	12/06/12 01:18	5
Phenol-d5	60		31 - 110				11/26/12 07:16	12/06/12 01:18	5
Nitrobenzene-d5	73		30 - 115				11/26/12 07:16	12/06/12 01:18	5
2-Fluorobiphenyl	74		30 - 119				11/26/12 07:16	12/06/12 01:18	5
2,4,6-Tribromophenol	85		35 - 137				11/26/12 07:16	12/06/12 01:18	5
Terphenyl-d14	76		36 - 134				11/26/12 07:16	12/06/12 01:18	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Arsenic</b>	<b>5.0</b>		0.55	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Barium</b>	<b>82</b>		0.55	0.066	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Beryllium</b>	<b>0.80</b>		0.22	0.016	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Boron</b>	<b>9.2</b>		2.8	0.52	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Cadmium</b>	<b>0.74</b>		0.11	0.027	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Calcium</b>	<b>11000</b>	B	11	2.0	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Chromium</b>	<b>23</b>		0.55	0.092	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Cobalt</b>	<b>6.2</b>		0.28	0.029	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Copper</b>	<b>30</b>		0.55	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Iron</b>	<b>17000</b>		11	4.8	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Lead</b>	<b>190</b>	B	0.28	0.095	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Magnesium</b>	<b>7100</b>	B	5.5	1.1	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Manganese</b>	<b>350</b>		0.55	0.078	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Nickel</b>	<b>18</b>		0.55	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Potassium</b>	<b>1500</b>		28	3.1	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Selenium</b>	<b>0.30</b>	J	0.55	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Sodium</b>	<b>830</b>	B	55	10	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Vanadium</b>	<b>23</b>		0.28	0.042	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1
<b>Zinc</b>	<b>87</b>		1.1	0.38	mg/Kg	☼	11/13/12 09:20	11/20/12 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.26</b>	J	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 21:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 21:24	1
<b>Boron</b>	<b>1.0</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 21:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 21:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-1**

**Lab Sample ID: 500-52267-15**

Date Collected: 11/12/12 12:30

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:24	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:24	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:24	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 21:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 21:24	1
<b>Manganese</b>	<b>0.10</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:24	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:24	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 21:24	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:24	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 21:24	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		11/19/12 15:30	12/01/12 19:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000078</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 12:59	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.061</b>		0.018	0.0068	mg/Kg	☼	11/27/12 17:00	11/28/12 14:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.80</b>		0.200	0.200	SU			11/17/12 10:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-2**

**Lab Sample ID: 500-52267-16**

Date Collected: 11/12/12 12:40

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0058</b>		0.0045	0.0019	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
<b>Methylene Chloride</b>	<b>0.0047</b>		0.0045	0.0012	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1
Xylenes, Total	<0.0089		0.0089	0.00041	mg/Kg	☼	11/12/12 12:40	11/16/12 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		76 - 120	11/12/12 12:40	11/16/12 05:46	1
Dibromofluoromethane	104		73 - 122	11/12/12 12:40	11/16/12 05:46	1
1,2-Dichloroethane-d4 (Surr)	100		74 - 123	11/12/12 12:40	11/16/12 05:46	1
Toluene-d8 (Surr)	99		72 - 122	11/12/12 12:40	11/16/12 05:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-2**

**Lab Sample ID: 500-52267-16**

**Date Collected: 11/12/12 12:40**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 86.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
<b>Fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.037	0.015	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
<b>Benzo[a]anthracene</b>	<b>0.0098</b>	<b>J</b>	0.037	0.0079	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.037	0.0085	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-2**

**Lab Sample ID: 500-52267-16**

Date Collected: 11/12/12 12:40

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
<b>Benzo[b]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
<b>Benzo[a]pyrene</b>	<b>0.010</b>	<b>J</b>	0.037	0.0068	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/26/12 07:16	12/06/12 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		30 - 110				11/26/12 07:16	12/06/12 01:39	1
Phenol-d5	66		31 - 110				11/26/12 07:16	12/06/12 01:39	1
Nitrobenzene-d5	70		30 - 115				11/26/12 07:16	12/06/12 01:39	1
2-Fluorobiphenyl	81		30 - 119				11/26/12 07:16	12/06/12 01:39	1
2,4,6-Tribromophenol	107		35 - 137				11/26/12 07:16	12/06/12 01:39	1
Terphenyl-d14	77		36 - 134				11/26/12 07:16	12/06/12 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Arsenic</b>	<b>3.7</b>		0.56	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Barium</b>	<b>52</b>		0.56	0.067	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Beryllium</b>	<b>0.36</b>		0.22	0.016	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Boron</b>	<b>2.4</b>	<b>J</b>	2.8	0.52	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.028	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Calcium</b>	<b>1300</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Chromium</b>	<b>8.4</b>		0.56	0.094	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Cobalt</b>	<b>3.6</b>		0.28	0.029	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Copper</b>	<b>7.0</b>		0.56	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Iron</b>	<b>7800</b>		11	4.9	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Lead</b>	<b>6.9</b>	<b>B</b>	0.28	0.097	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Magnesium</b>	<b>1500</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Manganese</b>	<b>36</b>		0.56	0.079	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Nickel</b>	<b>10</b>		0.56	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Potassium</b>	<b>450</b>		28	3.2	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Sodium</b>	<b>300</b>	<b>B</b>	56	10	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Vanadium</b>	<b>12</b>		0.28	0.043	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1
<b>Zinc</b>	<b>18</b>		1.1	0.39	mg/Kg	☼	11/13/12 09:20	11/20/12 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 21:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 21:45	1
<b>Boron</b>	<b>1.0</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 21:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 21:45	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-11-B04-2**

**Lab Sample ID: 500-52267-16**

Date Collected: 11/12/12 12:40

Matrix: Solid

Date Received: 11/13/12 07:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:45	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:45	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 21:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 21:45	1
<b>Manganese</b>	<b>0.079</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:45	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 21:45	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 21:45	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 21:45	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 21:45	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		11/19/12 15:30	12/01/12 19:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000072</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 13:01	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.016</b>	<b>J</b>	0.019	0.0071	mg/Kg	☼	11/27/12 17:00	11/28/12 14:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.11</b>		0.200	0.200	SU			11/17/12 10:17	1



# Lab Chronicle

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B04-1**

**Lab Sample ID: 500-52267-24**

**Date Collected: 11/12/12 14:35**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	170124	(Start) 11/17/12 10:43 (End) 11/17/12 10:45	APW	TAL CHI

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>	Project Name: <u>US 30</u>	COC No.: <u>2 of 3</u>
	Lab: <b>Test America - Chicago</b>	Project No.: <u>IDOT2011-053</u>	Lab Job No.: <u>500-52267</u>
	Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</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:
	Phone: <b>708-534-5200</b> Contact: <b>Dick Wright</b> email: <u>richard.wright@testamericainc.com</u>	Sampler: <u>CRM</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.

ANALYSES													Matrix Key: W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other
VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization			

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization			Comments
13	2034A-G-B02-1	11/12/12	12:00	S	X	X					X	X	X	X				0-4'
14	2034A-G-B02-2		12:15															4-8'
15	2034A-G-B04-1		12:30															0-5'
16	2034A-11-B04-2		12:45															5-10'
17	2034A-6-B04-1		12:55															0-4'
18	2034A-6-B04-2		1:00															4-8'
19	2034A-6-B01-1		1:10															0-4'
20	2034A-6-B01-2		1:20															4-8'
21	2034A-6-B01-1-DUP		1:15															0-4'
22	2034A-8-B05-1		2:25															0-5'
23	2034A-8-B05-2		2:30															5-10'
24	2034A-8-B04-1		2:35															0-5'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/12/12/1530</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/12/12/1538</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/12/12/1417</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/13/12 0700</u>
Relinquished by:	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:** IDOT2011-053

**WorkOrder:** 13120034

Dear Colleen Grey:

TEKLAB, INC received 7 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120034

**Client Project:** IDOT2011-053

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

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	12
Receiving Check List	13
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120034

**Client Project:** IDOT2011-053

**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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120034

**Client Project:** IDOT2011-053

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

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120034

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120034-001

Client Sample ID: 2034A-11-B01-1

Matrix: SOLID

Collection Date: 11/27/2013 9:45

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>0.0332</b>	mg/L	1	12/06/2013 18:39	94357





## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120034

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120034-002

Client Sample ID: 2034A-11-B01-1 DUP

Matrix: SOLID

Collection Date: 11/27/2013 9:45

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	J	<b>0.0022</b>	mg/L	1	12/06/2013 18:45	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120034

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120034-003

Client Sample ID: 2034A-11-B01-2

Matrix: SOLID

Collection Date: 11/27/2013 9:50

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		<b>0.0373</b>	mg/L	1	12/06/2013 18:51	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120034

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120034-004

Client Sample ID: 2034A-11-B02-1

Matrix: SOLID

Collection Date: 11/27/2013 9:35

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>0.0743</b>	mg/L	1	12/06/2013 18:57	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120034

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120034-005

Client Sample ID: 2034A-11-B02-2

Matrix: SOLID

Collection Date: 11/27/2013 9:40

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>0.0326</b>	mg/L	1	12/06/2013 19:03	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120034

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120034-006

Client Sample ID: 2034A-11-B04-1

Matrix: SOLID

Collection Date: 11/27/2013 9:30

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>0.0685</b>	mg/L	1	12/06/2013 19:21	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120034

Client Project: IDOT2011-053

Report Date: 09-Dec-13

Lab ID: 13120034-007

Client Sample ID: 2034A-11-B04-2

Matrix: SOLID

Collection Date: 11/27/2013 9:35

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>0.101</b>	mg/L	1	12/06/2013 19:28	94357



# 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: <del>Test America - Chicago</del> <b>Teklab</b> Address: <del>2417 Bond Street</del> <b>University Park, IL 60484</b> Phone: <del>708-534-5200</del> Contact: <del>Dick Wright</del> email: <del>in@and.wright@testamerica.com</del>		Project Name: <b>IL 30 Cook Co</b> Project No.: <b>IDOT 2011-053</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		COC No.: <u>6</u> of <u>1</u> Lab Job No.: <b>13120034</b> Sample Temp: <b>5.0°C ice</b> Matrix Key: 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>				Waste Characterization % Solids pH SPLP/** TCLP Metals * Total Metals PCBs Pesticides PNAs BETX & MTBE SVOCs VOCs											
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	SPLP/** TCLP Metals	* Total Metals	PCBs	Pesticides	PNAs	BETX & MTBE	SVOCs	VOCs	Waste Characterization	% Solids	pH	SPLP Mn/** TCLP Mn	Comments
13120034-001	A034A-11-B01-1	11/27/13	9:45	S									X				0-5
002	A034A-11-B01-1 DUP		9:45	S									X				0-5
003	A034A-11-B01-2		9:50	S									X				S-10
004	A034A-11-B02-1		9:35	S									X				0-5
005	A034A-11-B02-2		9:40	S									X				S-10
006	A034A-11-B04-1		9:30	S									X				0-5
007	A034A-11-B04-2		9:35	S									X				S-10
Teklab, Inc. Courier Pick Up																	
Relinquished by: <i>[Signature]</i>													Date/Time	11/27/13	4:00pm	Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>													Date/Time	12/13	12:20	Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>													Date/Time	12/13	12:20	Received by: <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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21700 Block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.49890 Longitude: -87.52891  
(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: 0311685005 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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)Latitude: 41.49890 Longitude: -87.52891Uncontaminated 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 2034/A-12-B02 THROUGH -B07 AND -B09 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-12. SEE FIGURE 3 AND TABLE 5j 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: 500-52070. TEKLAB WORK ORDER NO. 13120035.

**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: 3/17/14

**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 2034A-12  
Norfolk Southern Railroad

Sample ID	2034A-12-B02-1	2034A-12-B02-2	2034A-12-B03-1	2034A-12-B03-2	2034A-12-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)	0-4.5	4.5-9	0-4.5	4.5-9	0-4.5								
Sample Date	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012								
PID	0	0	0	0	0								
Sample pH	7.75	8.01	7.54	7.79	8.6								
Matrix	Soil	Soil	Soil	Soil	Soil								
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>													
Benzo (a) anthracene	0.14	ND	0.047	J 0.011	1.1	1,2,3	0.9	0.9	0.9	1.1	1.8	NA	
Benzo (a) pyrene	0.11	1,2	J 0.0076	J 0.038	J 0.017	0.57	1,2	0.09	0.09	0.98	1.3	2.1	NA
Benzo (b) fluoranthene	0.12	J 0.015	0.065	J 0.029	0.99	1,2,3	0.9	0.9	0.9	1.5	2.1	NA	
Dibenzo (a,h) anthracene	J 0.013	ND	ND	ND	0.13	1,2	0.09	0.09	0.15	0.2	0.42	NA	

Sample ID	2034A-12-B04-2	2034A-12-B05-1	2034A-12-B05-2	2034A-12-B06-1	2034A-12-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)	4.5-9	0-4.5	4.5-9	0-4.5	4.5-9							
Sample Date	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012							
PID	0	0	0	0	0							
Sample pH	8.44	7.71	7.73	7.74	7.58							
Matrix	Soil	Soil	Soil	Soil	Soil							
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>												
Benzo (a) anthracene	J 0.012	0.16	ND	J 0.016	ND	0.9	0.9	0.9	1.1	1.8	NA	
Benzo (a) pyrene	J 0.013	0.17	1,2	J 0.0083	J 0.023	J 0.0093	0.09	0.09	0.98	1.3	2.1	NA
Benzo (b) fluoranthene	J 0.02	0.23	J 0.0086	0.04	J 0.014	0.9	0.9	0.9	1.5	2.1	NA	
Dibenzo (a,h) anthracene	ND	0.046	ND	ND	ND	0.09	0.09	0.15	0.2	0.42	NA	

Sample ID	2034A-12-B07-1	2034A-12-B07-2	2034A-12-B09-1	2034A-12-B09-2	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)	0-4.5	4.5-9	0-4.5	4.5-9								
Sample Date	11/6/2012	11/6/2012	11/6/2012	11/6/2012								
PID	0	0	0	0								
Sample pH	7.9	7.84	8.08	8.23								
Matrix	Soil	Soil	Soil	Soil								
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>												
Benzo (a) anthracene	0.5	J 0.035	0.1	J 0.014	0.9	0.9	0.9	1.1	1.8	NA		
Benzo (a) pyrene	0.62	1,2	0.042	0.11	1,2	J 0.022	0.09	0.09	0.98	1.3	2.1	NA
Benzo (b) fluoranthene	0.92	1,2,3	0.071	0.17	J 0.03	0.9	0.9	0.9	1.5	2.1	NA	
Dibenzo (a,h) anthracene	0.26	1,2,3	ND	J 0.037	ND	0.09	0.09	0.15	0.2	0.42	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: 500-52070-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
11/23/2012 5:03:18 PM

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 Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-1**

**Lab Sample ID: 500-52070-3**

Date Collected: 11/06/12 08:40

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Benzene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Ethylbenzene	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00082	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/06/12 08:40	11/09/12 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/06/12 08:40	11/09/12 13:39	1
Dibromofluoromethane	92		73 - 122	11/06/12 08:40	11/09/12 13:39	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/06/12 08:40	11/09/12 13:39	1
Toluene-d8 (Surr)	94		72 - 122	11/06/12 08:40	11/09/12 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.96		0.96	0.30	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Bis(2-chloroethyl)ether	<0.96		0.96	0.28	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
1,3-Dichlorobenzene	<0.96		0.96	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
1,4-Dichlorobenzene	<0.96		0.96	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
1,2-Dichlorobenzene	<0.96		0.96	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-1**

**Lab Sample ID: 500-52070-3**

Date Collected: 11/06/12 08:40

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.96		0.96	0.25	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,2'-oxybis[1-chloropropane]	<0.96		0.96	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
N-Nitrosodi-n-propylamine	<0.96		0.96	0.24	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Hexachloroethane	<0.96		0.96	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2-Chlorophenol	<0.96		0.96	0.27	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Nitrobenzene	<0.19		0.19	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Bis(2-chloroethoxy)methane	<0.96		0.96	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
1,2,4-Trichlorobenzene	<0.96		0.96	0.22	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Isophorone	<0.96		0.96	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,4-Dimethylphenol	<1.9		1.9	0.60	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Hexachlorobutadiene	<0.96		0.96	0.25	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Naphthalene	<0.19		0.19	0.037	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,4-Dichlorophenol	<1.9		1.9	0.58	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
4-Chloroaniline	<3.9		3.9	0.58	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,4,6-Trichlorophenol	<1.9		1.9	0.24	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,4,5-Trichlorophenol	<1.9		1.9	0.55	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Hexachlorocyclopentadiene	<3.9		3.9	0.89	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2-Methylnaphthalene	<0.96		0.96	0.25	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2-Nitroaniline	<0.96 *		0.96	0.35	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2-Chloronaphthalene	<0.96		0.96	0.22	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
4-Chloro-3-methylphenol	<1.9		1.9	0.92	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,6-Dinitrotoluene	<0.96		0.96	0.23	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2-Nitrophenol	<1.9		1.9	0.30	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
3-Nitroaniline	<1.9		1.9	0.37	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Dimethyl phthalate	<0.96		0.96	0.24	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,4-Dinitrophenol	<3.9		3.9	0.98	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Acenaphthylene	<0.19		0.19	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
2,4-Dinitrotoluene	<0.96		0.96	0.29	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Acenaphthene	<0.19		0.19	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Dibenzofuran	<0.96		0.96	0.23	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
4-Nitrophenol	<3.9		3.9	1.0	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Fluorene	<0.19		0.19	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
4-Nitroaniline	<1.9		1.9	0.39	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
4-Bromophenyl phenyl ether	<0.96		0.96	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Hexachlorobenzene	<0.39		0.39	0.038	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Diethyl phthalate	<0.96		0.96	0.32	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
4-Chlorophenyl phenyl ether	<0.96		0.96	0.30	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Pentachlorophenol	<3.9		3.9	0.98	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
N-Nitrosodiphenylamine	<0.96		0.96	0.26	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	0.47	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Phenanthrene</b>	<b>0.46</b>		0.19	0.080	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Anthracene</b>	<b>0.11 J</b>		0.19	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Carbazole	<0.96		0.96	0.27	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Di-n-butyl phthalate	<0.96		0.96	0.24	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Fluoranthene</b>	<b>1.0</b>		0.19	0.079	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Pyrene</b>	<b>0.99</b>		0.19	0.069	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Butyl benzyl phthalate	<0.96		0.96	0.24	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Benzo[a]anthracene</b>	<b>0.50</b>		0.19	0.040	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Chrysene</b>	<b>0.64</b>		0.19	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-1**

**Lab Sample ID: 500-52070-3**

Date Collected: 11/06/12 08:40

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.96		0.96	0.16	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Bis(2-ethylhexyl) phthalate	<0.96		0.96	0.25	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Di-n-octyl phthalate	<0.96		0.96	0.39	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Benzo[b]fluoranthene</b>	<b>0.92</b>		0.19	0.037	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Benzo[k]fluoranthene</b>	<b>0.31</b>		0.19	0.046	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Benzo[a]pyrene</b>	<b>0.62</b>		0.19	0.035	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.52</b>		0.19	0.065	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Dibenz(a,h)anthracene</b>	<b>0.26</b>		0.19	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
<b>Benzo[g,h,i]perylene</b>	<b>0.63</b>		0.19	0.065	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
3 & 4 Methylphenol	<0.96		0.96	0.36	mg/Kg	☼	11/16/12 07:11	11/21/12 13:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110				11/16/12 07:11	11/21/12 13:29	5
Phenol-d5	75		31 - 110				11/16/12 07:11	11/21/12 13:29	5
Nitrobenzene-d5	66		30 - 115				11/16/12 07:11	11/21/12 13:29	5
2-Fluorobiphenyl	80		30 - 119				11/16/12 07:11	11/21/12 13:29	5
2,4,6-Tribromophenol	110		35 - 137				11/16/12 07:11	11/21/12 13:29	5
Terphenyl-d14	86		36 - 134				11/16/12 07:11	11/21/12 13:29	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.17</b>	<b>J B</b>	1.1	0.14	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Arsenic</b>	<b>4.4</b>		0.54	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Barium</b>	<b>55</b>		0.54	0.064	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Beryllium</b>	<b>0.61</b>		0.21	0.016	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Boron</b>	<b>9.3</b>		2.7	0.50	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Cadmium</b>	<b>0.53</b>		0.11	0.027	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Calcium</b>	<b>71000</b>	<b>B</b>	110	19	mg/Kg	☼	11/07/12 10:35	11/16/12 13:51	10
<b>Chromium</b>	<b>13</b>		0.54	0.090	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Cobalt</b>	<b>4.3</b>		0.27	0.028	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Copper</b>	<b>25</b>		0.54	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Iron</b>	<b>12000</b>		11	4.7	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Lead</b>	<b>81</b>		0.27	0.092	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Magnesium</b>	<b>33000</b>		5.4	1.0	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Manganese</b>	<b>370</b>		0.54	0.076	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Nickel</b>	<b>11</b>		0.54	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Potassium</b>	<b>1200</b>		27	3.0	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Sodium</b>	<b>640</b>	<b>B</b>	54	9.8	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Vanadium</b>	<b>13</b>		0.27	0.041	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1
<b>Zinc</b>	<b>63</b>		1.1	0.37	mg/Kg	☼	11/07/12 10:35	11/16/12 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 22:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 22:15	1
<b>Boron</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 22:15	1
<b>Cadmium</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 22:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-1**

**Lab Sample ID: 500-52070-3**

Date Collected: 11/06/12 08:40

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:15	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:15	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 22:15	1
<b>Lead</b>	<b>0.012</b>	<b>B</b>	0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 18:08	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:15	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:15	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 22:15	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:15	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		11/13/12 16:00	11/14/12 22:15	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		11/13/12 16:00	11/17/12 21:42	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000057</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 10:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.043</b>		0.017	0.0064	mg/Kg	☼	11/15/12 16:00	11/16/12 11:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.90</b>		0.200	0.200	SU			11/08/12 15:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-2**

**Lab Sample ID: 500-52070-4**

Date Collected: 11/06/12 08:45

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0037	J	0.0046	0.0020	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	11/06/12 08:45	11/09/12 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		76 - 120	11/06/12 08:45	11/09/12 14:02	1
Dibromofluoromethane	93		73 - 122	11/06/12 08:45	11/09/12 14:02	1
1,2-Dichloroethane-d4 (Surr)	84		74 - 123	11/06/12 08:45	11/09/12 14:02	1
Toluene-d8 (Surr)	89		72 - 122	11/06/12 08:45	11/09/12 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-2**

**Lab Sample ID: 500-52070-4**

Date Collected: 11/06/12 08:45

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Naphthalene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2-Nitroaniline	<0.20	*	0.20	0.071	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Phenanthrene</b>	<b>0.034</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Fluoranthene</b>	<b>0.077</b>		0.039	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Pyrene</b>	<b>0.062</b>		0.039	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Benzo[a]anthracene</b>	<b>0.035</b>	<b>J</b>	0.039	0.0082	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Chrysene</b>	<b>0.046</b>		0.039	0.0089	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-2**

**Lab Sample ID: 500-52070-4**

Date Collected: 11/06/12 08:45

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Benzo[b]fluoranthene</b>	<b>0.071</b>		0.039	0.0076	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Benzo[k]fluoranthene</b>	<b>0.023</b>	J	0.039	0.0094	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Benzo[a]pyrene</b>	<b>0.042</b>		0.039	0.0072	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.031</b>	J	0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
<b>Benzo[g,h,i]perylene</b>	<b>0.047</b>		0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/16/12 07:11	11/21/12 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	50		30 - 110	11/16/12 07:11	11/21/12 13:48	1
Phenol-d5	59		31 - 110	11/16/12 07:11	11/21/12 13:48	1
Nitrobenzene-d5	47		30 - 115	11/16/12 07:11	11/21/12 13:48	1
2-Fluorobiphenyl	60		30 - 119	11/16/12 07:11	11/21/12 13:48	1
2,4,6-Tribromophenol	110		35 - 137	11/16/12 07:11	11/21/12 13:48	1
Terphenyl-d14	70		36 - 134	11/16/12 07:11	11/21/12 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Arsenic</b>	<b>6.3</b>		0.61	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Barium</b>	<b>60</b>		0.61	0.073	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Beryllium</b>	<b>0.61</b>		0.25	0.018	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Boron</b>	<b>4.0</b>		3.1	0.57	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Cadmium</b>	<b>0.082</b>	J	0.12	0.030	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Calcium</b>	<b>7200</b>	B	12	2.2	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Chromium</b>	<b>13</b>		0.61	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Cobalt</b>	<b>5.5</b>		0.31	0.032	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Copper</b>	<b>13</b>		0.61	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Iron</b>	<b>15000</b>		12	5.3	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Lead</b>	<b>10</b>		0.31	0.11	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Magnesium</b>	<b>4000</b>		6.1	1.2	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Manganese</b>	<b>170</b>		0.61	0.086	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Nickel</b>	<b>16</b>		0.61	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Potassium</b>	<b>910</b>		31	3.5	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
Selenium	<0.61		0.61	0.18	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Sodium</b>	<b>500</b>	B	61	11	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
Thallium	<0.61		0.61	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Vanadium</b>	<b>18</b>		0.31	0.047	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1
<b>Zinc</b>	<b>35</b>		1.2	0.42	mg/Kg	☼	11/07/12 10:35	11/16/12 03:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.44</b>	J	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 22:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 22:21	1
<b>Boron</b>	<b>0.11</b>	J	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 22:21	1
<b>Cadmium</b>	<b>0.0040</b>	J	0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 22:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B07-2**

**Lab Sample ID: 500-52070-4**

Date Collected: 11/06/12 08:45

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:21	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:21	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:21	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 22:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 22:21	1
<b>Manganese</b>	<b>4.7</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:21	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:21	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 22:21	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:21	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		11/13/12 16:00	11/14/12 22:21	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		11/13/12 16:00	11/17/12 21:43	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00011</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 10:50	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.011</b>	<b>J</b>	0.019	0.0073	mg/Kg	☼	11/15/12 16:00	11/16/12 11:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.84</b>		0.200	0.200	SU			11/08/12 15:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-1**

**Lab Sample ID: 500-52070-5**

Date Collected: 11/06/12 08:50

Matrix: Solid

Date Received: 11/06/12 15:30

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	0.0019	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,2-Dichloropropane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Ethylbenzene	<0.0044		0.0044	0.00088	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00088	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00078	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	11/06/12 08:50	11/09/12 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		76 - 120	11/06/12 08:50	11/09/12 14:25	1
Dibromofluoromethane	92		73 - 122	11/06/12 08:50	11/09/12 14:25	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	11/06/12 08:50	11/09/12 14:25	1
Toluene-d8 (Surr)	92		72 - 122	11/06/12 08:50	11/09/12 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-1**

**Lab Sample ID: 500-52070-5**

Date Collected: 11/06/12 08:50

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Naphthalene</b>	<b>0.012</b>	<b>J</b>	0.040	0.0077	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2-Nitroaniline	<0.20	*	0.20	0.072	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Phenanthrene</b>	<b>0.030</b>	<b>J</b>	0.040	0.017	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Fluoranthene</b>	<b>0.043</b>		0.040	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Pyrene</b>	<b>0.035</b>	<b>J</b>	0.040	0.015	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Benzo[a]anthracene</b>	<b>0.016</b>	<b>J</b>	0.040	0.0084	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Chrysene</b>	<b>0.031</b>	<b>J</b>	0.040	0.0091	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-1**

**Lab Sample ID: 500-52070-5**

Date Collected: 11/06/12 08:50

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Benzo[b]fluoranthene</b>	<b>0.040</b>		0.040	0.0078	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Benzo[k]fluoranthene</b>	<b>0.016 J</b>		0.040	0.0096	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Benzo[a]pyrene</b>	<b>0.023 J</b>		0.040	0.0073	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.016 J</b>		0.040	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Benzo[g,h,i]perylene</b>	<b>0.020 J</b>		0.040	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/16/12 07:11	11/21/12 14:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	58		30 - 110				11/16/12 07:11	11/21/12 14:08	1
Phenol-d5	64		31 - 110				11/16/12 07:11	11/21/12 14:08	1
Nitrobenzene-d5	54		30 - 115				11/16/12 07:11	11/21/12 14:08	1
2-Fluorobiphenyl	68		30 - 119				11/16/12 07:11	11/21/12 14:08	1
2,4,6-Tribromophenol	116		35 - 137				11/16/12 07:11	11/21/12 14:08	1
Terphenyl-d14	83		36 - 134				11/16/12 07:11	11/21/12 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Arsenic</b>	<b>8.5</b>		0.56	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Barium</b>	<b>89</b>		0.56	0.067	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Beryllium</b>	<b>0.86</b>		0.22	0.016	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Boron</b>	<b>7.6</b>		2.8	0.52	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Cadmium</b>	<b>0.21</b>		0.11	0.028	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Calcium</b>	<b>4400 B</b>		11	2.0	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Chromium</b>	<b>21</b>		0.56	0.094	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Cobalt</b>	<b>11</b>		0.28	0.030	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Copper</b>	<b>19</b>		0.56	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Iron</b>	<b>23000</b>		11	4.9	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Lead</b>	<b>19</b>		0.28	0.097	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Magnesium</b>	<b>5100</b>		5.6	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Manganese</b>	<b>300</b>		0.56	0.079	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Nickel</b>	<b>25</b>		0.56	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Potassium</b>	<b>1600</b>		28	3.2	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Sodium</b>	<b>660 B</b>		56	10	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Thallium</b>	<b>0.47 J</b>		0.56	0.14	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Vanadium</b>	<b>25</b>		0.28	0.043	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1
<b>Zinc</b>	<b>61</b>		1.1	0.39	mg/Kg	☼	11/07/12 10:35	11/16/12 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.18 J</b>		0.50	0.010	mg/L		11/13/12 16:00	11/14/12 22:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 22:27	1
<b>Boron</b>	<b>0.13 J</b>		0.50	0.050	mg/L		11/13/12 16:00	11/14/12 22:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 22:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-1**

**Lab Sample ID: 500-52070-5**

Date Collected: 11/06/12 08:50

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:27	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:27	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 22:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 22:27	1
<b>Manganese</b>	<b>0.075</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:27	1
Nickel	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 22:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:27	1
Zinc	<0.10		0.10	0.020	mg/L		11/13/12 16:00	11/14/12 22:27	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		11/13/12 16:00	11/17/12 21:44	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 10:52	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.019	0.0071	mg/Kg	☼	11/15/12 16:00	11/16/12 11:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.74</b>		0.200	0.200	SU			11/08/12 15:48	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-2**

**Lab Sample ID: 500-52070-6**

Date Collected: 11/06/12 08:55

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0053</b>		0.0044	0.0019	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
<b>Methylene Chloride</b>	<b>0.0049</b>		0.0044	0.0012	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	11/06/12 08:55	11/09/12 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/06/12 08:55	11/09/12 14:48	1
Dibromofluoromethane	89		73 - 122	11/06/12 08:55	11/09/12 14:48	1
1,2-Dichloroethane-d4 (Surr)	84		74 - 123	11/06/12 08:55	11/09/12 14:48	1
Toluene-d8 (Surr)	95		72 - 122	11/06/12 08:55	11/09/12 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-2**

**Lab Sample ID: 500-52070-6**

Date Collected: 11/06/12 08:55

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2-Nitroaniline	<0.18 *		0.18	0.065	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Benzo[a]anthracene	<0.036		0.036	0.0076	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Chrysene	<0.036		0.036	0.0082	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-2**

**Lab Sample ID: 500-52070-6**

Date Collected: 11/06/12 08:55

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
<b>Benzo[b]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.036	0.0070	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
<b>Benzo[a]pyrene</b>	<b>0.0093</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/16/12 07:11	11/21/12 14:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	68		30 - 110				11/16/12 07:11	11/21/12 14:27	1
Phenol-d5	72		31 - 110				11/16/12 07:11	11/21/12 14:27	1
Nitrobenzene-d5	61		30 - 115				11/16/12 07:11	11/21/12 14:27	1
2-Fluorobiphenyl	62		30 - 119				11/16/12 07:11	11/21/12 14:27	1
2,4,6-Tribromophenol	123		35 - 137				11/16/12 07:11	11/21/12 14:27	1
Terphenyl-d14	88		36 - 134				11/16/12 07:11	11/21/12 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Arsenic</b>	<b>4.1</b>		0.56	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Barium</b>	<b>32</b>		0.56	0.066	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Beryllium</b>	<b>0.35</b>		0.22	0.016	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Boron</b>	<b>2.2</b>	<b>J</b>	2.8	0.52	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Calcium</b>	<b>1200</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Chromium</b>	<b>8.5</b>		0.56	0.093	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Cobalt</b>	<b>3.5</b>		0.28	0.029	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Copper</b>	<b>9.6</b>		0.56	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Iron</b>	<b>9300</b>		11	4.8	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Lead</b>	<b>7.3</b>		0.28	0.096	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Magnesium</b>	<b>1600</b>		5.6	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Manganese</b>	<b>43</b>		0.56	0.079	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Nickel</b>	<b>11</b>		0.56	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Potassium</b>	<b>500</b>		28	3.2	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Sodium</b>	<b>260</b>	<b>B</b>	56	10	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Vanadium</b>	<b>12</b>		0.28	0.042	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1
<b>Zinc</b>	<b>22</b>		1.1	0.38	mg/Kg	☼	11/07/12 10:35	11/16/12 03:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 22:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 22:33	1
<b>Boron</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 22:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 22:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B06-2**

**Lab Sample ID: 500-52070-6**

Date Collected: 11/06/12 08:55

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:33	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:33	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:33	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 22:33	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 22:33	1
<b>Manganese</b>	<b>0.036</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:33	1
Nickel	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:33	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 22:33	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:33	1
Zinc	<0.10		0.10	0.020	mg/L		11/13/12 16:00	11/14/12 22:33	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		11/13/12 16:00	11/17/12 21:47	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000094</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 10:54	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.018</b>		0.017	0.0065	mg/Kg	☼	11/15/12 16:00	11/16/12 11:19	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			11/08/12 15:52	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-1**

**Lab Sample ID: 500-52070-7**

Date Collected: 11/06/12 09:00

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
<b>Methylene Chloride</b>	<b>0.0056</b>		0.0050	0.0014	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Toluene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/06/12 09:00	11/09/12 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/06/12 09:00	11/09/12 15:11	1
Dibromofluoromethane	96		73 - 122	11/06/12 09:00	11/09/12 15:11	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/06/12 09:00	11/09/12 15:11	1
Toluene-d8 (Surr)	95		72 - 122	11/06/12 09:00	11/09/12 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
1,3-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
1,4-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-1**

**Lab Sample ID: 500-52070-7**

Date Collected: 11/06/12 09:00

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2-Chlorophenol	<0.21		0.21	0.061	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Hexachlorobutadiene	<0.21		0.21	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Naphthalene</b>	<b>0.025</b>	<b>J</b>	0.042	0.0082	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
4-Chloroaniline	<0.86		0.86	0.13	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Hexachlorocyclopentadiene	<0.86		0.86	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2-Nitroaniline	<0.21	*	0.21	0.076	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2-Chloronaphthalene	<0.21		0.21	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,6-Dinitrotoluene	<0.21		0.21	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2-Nitrophenol	<0.42		0.42	0.067	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
3-Nitroaniline	<0.42		0.42	0.082	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,4-Dinitrophenol	<0.86		0.86	0.22	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Acenaphthylene	<0.042		0.042	0.0098	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
4-Nitrophenol	<0.86		0.86	0.23	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Fluorene	<0.042		0.042	0.0097	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
4-Nitroaniline	<0.42		0.42	0.087	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Hexachlorobenzene	<0.086		0.086	0.0084	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.067	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Pentachlorophenol	<0.86		0.86	0.22	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Phenanthrene</b>	<b>0.081</b>		0.042	0.018	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Anthracene</b>	<b>0.017</b>	<b>J</b>	0.042	0.010	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Carbazole	<0.21		0.21	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Di-n-butyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Fluoranthene</b>	<b>0.33</b>		0.042	0.017	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Pyrene</b>	<b>0.25</b>		0.042	0.015	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Benzo[a]anthracene</b>	<b>0.16</b>		0.042	0.0089	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Chrysene</b>	<b>0.15</b>		0.042	0.0096	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-1**

**Lab Sample ID: 500-52070-7**

Date Collected: 11/06/12 09:00

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
Di-n-octyl phthalate	<0.21		0.21	0.086	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Benzo[b]fluoranthene</b>	<b>0.23</b>		0.042	0.0082	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Benzo[k]fluoranthene</b>	<b>0.086</b>		0.042	0.010	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Benzo[a]pyrene</b>	<b>0.17</b>		0.042	0.0077	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.11</b>		0.042	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Dibenz(a,h)anthracene</b>	<b>0.046</b>		0.042	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
<b>Benzo[g,h,i]perylene</b>	<b>0.13</b>		0.042	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	11/16/12 07:11	11/21/12 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		30 - 110	11/16/12 07:11	11/21/12 14:47	1
Phenol-d5	60		31 - 110	11/16/12 07:11	11/21/12 14:47	1
Nitrobenzene-d5	55		30 - 115	11/16/12 07:11	11/21/12 14:47	1
2-Fluorobiphenyl	62		30 - 119	11/16/12 07:11	11/21/12 14:47	1
2,4,6-Tribromophenol	113		35 - 137	11/16/12 07:11	11/21/12 14:47	1
Terphenyl-d14	76		36 - 134	11/16/12 07:11	11/21/12 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Arsenic</b>	<b>7.4</b>		0.60	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Barium</b>	<b>81</b>		0.60	0.072	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Beryllium</b>	<b>0.95</b>		0.24	0.018	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Boron</b>	<b>9.1</b>		3.0	0.56	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Cadmium</b>	<b>0.23</b>		0.12	0.030	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Calcium</b>	<b>7600</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Chromium</b>	<b>23</b>		0.60	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Cobalt</b>	<b>9.9</b>		0.30	0.032	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Copper</b>	<b>19</b>		0.60	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Iron</b>	<b>25000</b>		12	5.2	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Lead</b>	<b>18</b>		0.30	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Magnesium</b>	<b>8000</b>		6.0	1.2	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Manganese</b>	<b>240</b>		0.60	0.085	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Nickel</b>	<b>27</b>		0.60	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Potassium</b>	<b>2000</b>		30	3.4	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Sodium</b>	<b>2200</b>	<b>B</b>	60	11	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Thallium</b>	<b>0.16</b>	<b>J</b>	0.60	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Vanadium</b>	<b>28</b>		0.30	0.046	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1
<b>Zinc</b>	<b>64</b>		1.2	0.41	mg/Kg	☼	11/07/12 10:35	11/16/12 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 22:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 22:58	1
<b>Boron</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 22:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 22:58	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-1**

**Lab Sample ID: 500-52070-7**

Date Collected: 11/06/12 09:00

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:58	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:58	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 22:58	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 22:58	1
<b>Manganese</b>	<b>0.91</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:58	1
Nickel	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 22:58	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 22:58	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 22:58	1
Zinc	<0.10		0.10	0.020	mg/L		11/13/12 16:00	11/14/12 22:58	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		11/13/12 16:00	11/17/12 21:52	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 10:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.020	0.0075	mg/Kg	☼	11/15/12 16:00	11/16/12 11:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.71</b>		0.200	0.200	SU			11/08/12 15:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-2**

**Lab Sample ID: 500-52070-8**

Date Collected: 11/06/12 09:05

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0092</b>		0.0047	0.0020	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Ethylbenzene	<0.0047		0.0047	0.00095	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
<b>Methylene Chloride</b>	<b>0.016</b>		0.0047	0.0013	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00095	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Toluene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00084	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1
Xylenes, Total	<0.0094		0.0094	0.00043	mg/Kg	☼	11/06/12 09:05	11/09/12 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		76 - 120	11/06/12 09:05	11/09/12 15:34	1
Dibromofluoromethane	90		73 - 122	11/06/12 09:05	11/09/12 15:34	1
1,2-Dichloroethane-d4 (Surr)	84		74 - 123	11/06/12 09:05	11/09/12 15:34	1
Toluene-d8 (Surr)	92		72 - 122	11/06/12 09:05	11/09/12 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-2**

**Lab Sample ID: 500-52070-8**

Date Collected: 11/06/12 09:05

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
<b>Naphthalene</b>	<b>0.012</b>	<b>J</b>	0.040	0.0077	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2-Nitroaniline	<0.20	*	0.20	0.072	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,4-Dinitrophenol	<0.81		0.81	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Acenaphthylene	<0.040		0.040	0.0092	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Pyrene	<0.040		0.040	0.015	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Benzo[a]anthracene	<0.040		0.040	0.0084	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Chrysene	<0.040		0.040	0.0091	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-2**

**Lab Sample ID: 500-52070-8**

Date Collected: 11/06/12 09:05

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
<b>Benzo[b]fluoranthene</b>	<b>0.0086</b>	<b>J</b>	0.040	0.0078	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Benzo[k]fluoranthene	<0.040		0.040	0.0096	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
<b>Benzo[a]pyrene</b>	<b>0.0083</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
Benzo[g,h,i]perylene	<0.040		0.040	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/16/12 07:11	11/21/12 15:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	73		30 - 110				11/16/12 07:11	11/21/12 15:06	1
Phenol-d5	72		31 - 110				11/16/12 07:11	11/21/12 15:06	1
Nitrobenzene-d5	66		30 - 115				11/16/12 07:11	11/21/12 15:06	1
2-Fluorobiphenyl	73		30 - 119				11/16/12 07:11	11/21/12 15:06	1
2,4,6-Tribromophenol	128		35 - 137				11/16/12 07:11	11/21/12 15:06	1
Terphenyl-d14	85		36 - 134				11/16/12 07:11	11/21/12 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Arsenic</b>	<b>2.3</b>		0.58	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Barium</b>	<b>8.8</b>		0.58	0.069	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Beryllium</b>	<b>0.30</b>		0.23	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Boron</b>	<b>4.5</b>		2.9	0.54	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Cadmium</b>	<b>0.16</b>		0.12	0.029	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Calcium</b>	<b>44000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Chromium</b>	<b>6.2</b>		0.58	0.097	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Cobalt</b>	<b>3.9</b>		0.29	0.031	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Copper</b>	<b>15</b>		0.58	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Iron</b>	<b>10000</b>		12	5.0	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Lead</b>	<b>8.3</b>		0.29	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Magnesium</b>	<b>25000</b>		5.8	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Manganese</b>	<b>350</b>		0.58	0.082	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Nickel</b>	<b>12</b>		0.58	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Potassium</b>	<b>880</b>		29	3.3	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Sodium</b>	<b>240</b>	<b>B</b>	58	11	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Vanadium</b>	<b>10</b>		0.29	0.044	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1
<b>Zinc</b>	<b>25</b>		1.2	0.40	mg/Kg	☼	11/07/12 10:35	11/16/12 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 23:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 23:20	1
<b>Boron</b>	<b>1.2</b>		0.50	0.050	mg/L		11/13/12 16:00	11/14/12 23:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 23:20	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B05-2**

**Lab Sample ID: 500-52070-8**

Date Collected: 11/06/12 09:05

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:20	1
<b>Cobalt</b>	<b>0.0075</b>	<b>J</b>	0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:20	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:20	1
<b>Iron</b>	<b>0.29</b>		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 23:20	1
<b>Lead</b>	<b>0.0057</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 18:21	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:20	1
<b>Nickel</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:20	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 23:20	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:20	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		11/13/12 16:00	11/14/12 23:20	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		11/13/12 16:00	11/17/12 21:53	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00011</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 10:57	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.016</b>	<b>J</b>	0.019	0.0074	mg/Kg	☼	11/15/12 16:00	11/16/12 11:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.73</b>		0.200	0.200	SU			11/08/12 15:59	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-1**

**Lab Sample ID: 500-52070-9**

Date Collected: 11/06/12 09:10

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0036	J	0.0053	0.0023	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Chlorobenzene	<0.0053		0.0053	0.00053	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,1-Dichloroethane	<0.0053		0.0053	0.00083	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00094	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/06/12 09:10	11/09/12 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/06/12 09:10	11/09/12 15:56	1
Dibromofluoromethane	97		73 - 122	11/06/12 09:10	11/09/12 15:56	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	11/06/12 09:10	11/09/12 15:56	1
Toluene-d8 (Surr)	97		72 - 122	11/06/12 09:10	11/09/12 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-1**

**Lab Sample ID: 500-52070-9**

Date Collected: 11/06/12 09:10

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Naphthalene</b>	<b>0.030</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2-Nitroaniline	<0.19	*	0.19	0.069	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Phenanthrene</b>	<b>0.11</b>		0.038	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Anthracene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0090	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Fluoranthene</b>	<b>0.17</b>		0.038	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Pyrene</b>	<b>0.16</b>		0.038	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Benzo[a]anthracene</b>	<b>0.10</b>		0.038	0.0080	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Chrysene</b>	<b>0.12</b>		0.038	0.0086	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-1**

**Lab Sample ID: 500-52070-9**

Date Collected: 11/06/12 09:10

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Benzo[b]fluoranthene</b>	<b>0.17</b>		0.038	0.0074	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Benzo[k]fluoranthene</b>	<b>0.042</b>		0.038	0.0091	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Benzo[a]pyrene</b>	<b>0.11</b>		0.038	0.0070	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.070</b>		0.038	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Dibenz(a,h)anthracene</b>	<b>0.037 J</b>		0.038	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Benzo[g,h,i]perylene</b>	<b>0.088</b>		0.038	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/16/12 07:11	11/21/12 15:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	50		30 - 110				11/16/12 07:11	11/21/12 15:26	1
Phenol-d5	54		31 - 110				11/16/12 07:11	11/21/12 15:26	1
Nitrobenzene-d5	46		30 - 115				11/16/12 07:11	11/21/12 15:26	1
2-Fluorobiphenyl	56		30 - 119				11/16/12 07:11	11/21/12 15:26	1
2,4,6-Tribromophenol	103		35 - 137				11/16/12 07:11	11/21/12 15:26	1
Terphenyl-d14	70		36 - 134				11/16/12 07:11	11/21/12 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Arsenic</b>	<b>4.9</b>		0.57	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Barium</b>	<b>42</b>		0.57	0.068	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Beryllium</b>	<b>0.50</b>		0.23	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Boron</b>	<b>6.8</b>		2.9	0.53	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Cadmium</b>	<b>0.35</b>		0.11	0.028	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Calcium</b>	<b>67000 B</b>		110	20	mg/Kg	☼	11/07/12 10:35	11/16/12 13:55	10
<b>Chromium</b>	<b>11</b>		0.57	0.095	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Cobalt</b>	<b>5.0</b>		0.29	0.030	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Copper</b>	<b>14</b>		0.57	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Iron</b>	<b>11000</b>		11	4.9	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Lead</b>	<b>31</b>		0.29	0.098	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Magnesium</b>	<b>37000</b>		5.7	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Manganese</b>	<b>280</b>		0.57	0.080	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Nickel</b>	<b>12</b>		0.57	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Potassium</b>	<b>1200</b>		29	3.2	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Sodium</b>	<b>730 B</b>		57	10	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Vanadium</b>	<b>16</b>		0.29	0.043	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1
<b>Zinc</b>	<b>41</b>		1.1	0.39	mg/Kg	☼	11/07/12 10:35	11/16/12 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.48 J</b>		0.50	0.010	mg/L		11/13/12 16:00	11/14/12 23:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 23:27	1
<b>Boron</b>	<b>1.2</b>		0.50	0.050	mg/L		11/13/12 16:00	11/14/12 23:27	1
<b>Cadmium</b>	<b>0.0022 J</b>		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 23:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-1**

**Lab Sample ID: 500-52070-9**

Date Collected: 11/06/12 09:10

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:27	1
<b>Cobalt</b>	<b>0.022</b>	<b>J</b>	0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:27	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:27	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 23:27	1
<b>Lead</b>	<b>0.023</b>	<b>B</b>	0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 18:27	1
<b>Manganese</b>	<b>3.9</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:27	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 23:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:27	1
<b>Zinc</b>	<b>0.091</b>	<b>J</b>	0.10	0.020	mg/L		11/13/12 16:00	11/14/12 23:27	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		11/13/12 16:00	11/17/12 21:54	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 10:59	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.039</b>		0.019	0.0072	mg/Kg	☼	11/15/12 16:00	11/16/12 11:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.08</b>		0.200	0.200	SU			11/08/12 16:06	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-2**

**Lab Sample ID: 500-52070-10**

Date Collected: 11/06/12 09:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0067		0.0043	0.0019	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Bromoform	<0.0043		0.0043	0.00099	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Dibromochloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Ethylbenzene	<0.0043		0.0043	0.00087	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00087	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Trichloroethene	<0.0043		0.0043	0.00071	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1
Xylenes, Total	<0.0086		0.0086	0.00039	mg/Kg	☼	11/06/12 09:15	11/09/12 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		76 - 120	11/06/12 09:15	11/09/12 16:19	1
Dibromofluoromethane	93		73 - 122	11/06/12 09:15	11/09/12 16:19	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/06/12 09:15	11/09/12 16:19	1
Toluene-d8 (Surr)	93		72 - 122	11/06/12 09:15	11/09/12 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-2**

**Lab Sample ID: 500-52070-10**

Date Collected: 11/06/12 09:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Naphthalene</b>	<b>0.0079</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2-Nitroaniline	<0.20	*	0.20	0.071	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Fluoranthene</b>	<b>0.039</b>		0.039	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Pyrene</b>	<b>0.039</b>		0.039	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Benzo[a]anthracene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0082	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Chrysene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0089	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-2**

**Lab Sample ID: 500-52070-10**

Date Collected: 11/06/12 09:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Benzo[b]fluoranthene</b>	<b>0.030</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Benzo[k]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.039	0.0094	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Benzo[a]pyrene</b>	<b>0.022</b>	<b>J</b>	0.039	0.0071	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.014</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
<b>Benzo[g,h,i]perylene</b>	<b>0.020</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/16/12 07:11	11/21/12 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		30 - 110				11/16/12 07:11	11/21/12 15:45	1
Phenol-d5	67		31 - 110				11/16/12 07:11	11/21/12 15:45	1
Nitrobenzene-d5	58		30 - 115				11/16/12 07:11	11/21/12 15:45	1
2-Fluorobiphenyl	67		30 - 119				11/16/12 07:11	11/21/12 15:45	1
2,4,6-Tribromophenol	117		35 - 137				11/16/12 07:11	11/21/12 15:45	1
Terphenyl-d14	81		36 - 134				11/16/12 07:11	11/21/12 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Arsenic</b>	<b>7.1</b>		0.58	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Barium</b>	<b>37</b>		0.58	0.069	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Beryllium</b>	<b>0.54</b>		0.23	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Boron</b>	<b>4.9</b>		2.9	0.54	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Calcium</b>	<b>1800</b>	<b>B</b>	12	2.0	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Chromium</b>	<b>12</b>		0.58	0.097	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Cobalt</b>	<b>6.8</b>		0.29	0.030	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Copper</b>	<b>9.1</b>		0.58	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Iron</b>	<b>17000</b>		12	5.0	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Lead</b>	<b>12</b>		0.29	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Magnesium</b>	<b>2500</b>		5.8	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Manganese</b>	<b>89</b>		0.58	0.082	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Nickel</b>	<b>14</b>		0.58	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Potassium</b>	<b>850</b>		29	3.3	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Sodium</b>	<b>320</b>	<b>B</b>	58	11	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Vanadium</b>	<b>20</b>		0.29	0.044	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1
<b>Zinc</b>	<b>31</b>		1.2	0.40	mg/Kg	☼	11/07/12 10:35	11/16/12 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 23:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 23:33	1
<b>Boron</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 23:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 23:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B09-2**

**Lab Sample ID: 500-52070-10**

Date Collected: 11/06/12 09:15

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:33	1
<b>Cobalt</b>	<b>0.0077</b>	<b>J</b>	0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:33	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:33	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 23:33	1
<b>Lead</b>	<b>0.0059</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 23:33	1
<b>Manganese</b>	<b>0.82</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:33	1
Nickel	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:33	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 23:33	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:33	1
Zinc	<0.10		0.10	0.020	mg/L		11/13/12 16:00	11/14/12 23:33	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		11/13/12 16:00	11/17/12 21:55	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00011</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 11:00	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.029</b>		0.020	0.0074	mg/Kg	☼	11/15/12 16:00	11/16/12 11:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.23</b>		0.200	0.200	SU			11/08/12 16:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-1**

**Lab Sample ID: 500-52070-11**

Date Collected: 11/06/12 12:00

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Chloroethane	<0.0052		0.0052	0.0014	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,1-Dichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
<b>Methylene Chloride</b>	<b>0.0080</b>		0.0052	0.0014	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00087	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/06/12 12:00	11/09/12 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/06/12 12:00	11/09/12 16:42	1
Dibromofluoromethane	93		73 - 122	11/06/12 12:00	11/09/12 16:42	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	11/06/12 12:00	11/09/12 16:42	1
Toluene-d8 (Surr)	94		72 - 122	11/06/12 12:00	11/09/12 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-1**

**Lab Sample ID: 500-52070-11**

Date Collected: 11/06/12 12:00

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Naphthalene</b>	<b>0.11</b>		0.040	0.0077	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
4-Chloroaniline	<0.81		0.81	0.12	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Hexachlorocyclopentadiene	<0.81		0.81	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>2-Methylnaphthalene</b>	<b>0.16 J</b>		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2-Nitroaniline	<0.20 *		0.20	0.072	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,4-Dinitrophenol	<0.81		0.81	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Acenaphthylene</b>	<b>0.012 J</b>		0.040	0.0092	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Dibenzofuran</b>	<b>0.064 J</b>		0.20	0.048	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
4-Nitrophenol	<0.81		0.81	0.22	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Fluorene	<0.040		0.040	0.0091	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Hexachlorobenzene	<0.081		0.081	0.0079	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Pentachlorophenol	<0.81		0.81	0.20	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Phenanthrene</b>	<b>0.19</b>		0.040	0.017	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Anthracene</b>	<b>0.018 J</b>		0.040	0.0094	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Fluoranthene</b>	<b>0.069</b>		0.040	0.016	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Pyrene</b>	<b>0.077</b>		0.040	0.014	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Benzo[a]anthracene</b>	<b>0.047</b>		0.040	0.0084	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Chrysene</b>	<b>0.044</b>		0.040	0.0090	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-1**

**Lab Sample ID: 500-52070-11**

Date Collected: 11/06/12 12:00

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Benzo[b]fluoranthene</b>	<b>0.065</b>		0.040	0.0078	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Benzo[k]fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.040	0.0095	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Benzo[a]pyrene</b>	<b>0.038</b>	<b>J</b>	0.040	0.0073	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.026</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
<b>Benzo[g,h,i]perylene</b>	<b>0.036</b>	<b>J</b>	0.040	0.013	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
3 & 4 Methylphenol	<0.20		0.20	0.076	mg/Kg	☼	11/16/12 07:11	11/21/12 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		30 - 110				11/16/12 07:11	11/21/12 16:04	1
Phenol-d5	65		31 - 110				11/16/12 07:11	11/21/12 16:04	1
Nitrobenzene-d5	56		30 - 115				11/16/12 07:11	11/21/12 16:04	1
2-Fluorobiphenyl	70		30 - 119				11/16/12 07:11	11/21/12 16:04	1
2,4,6-Tribromophenol	98		35 - 137				11/16/12 07:11	11/21/12 16:04	1
Terphenyl-d14	79		36 - 134				11/16/12 07:11	11/21/12 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Arsenic</b>	<b>5.5</b>		0.59	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Barium</b>	<b>55</b>		0.59	0.071	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Beryllium</b>	<b>0.79</b>		0.24	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Boron</b>	<b>7.1</b>		3.0	0.55	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Calcium</b>	<b>2400</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Chromium</b>	<b>13</b>		0.59	0.099	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Cobalt</b>	<b>4.8</b>		0.30	0.031	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Copper</b>	<b>16</b>		0.59	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Iron</b>	<b>22000</b>		12	5.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Lead</b>	<b>9.3</b>		0.30	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Magnesium</b>	<b>2300</b>		5.9	1.2	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Manganese</b>	<b>110</b>		0.59	0.084	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Nickel</b>	<b>15</b>		0.59	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Potassium</b>	<b>1100</b>		30	3.4	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Selenium</b>	<b>0.46</b>	<b>J</b>	0.59	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Sodium</b>	<b>93</b>	<b>B</b>	59	11	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Thallium</b>	<b>0.27</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Vanadium</b>	<b>18</b>		0.30	0.045	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1
<b>Zinc</b>	<b>33</b>		1.2	0.41	mg/Kg	☼	11/07/12 10:35	11/16/12 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 23:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 23:39	1
<b>Boron</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 23:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 23:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-1**

**Lab Sample ID: 500-52070-11**

Date Collected: 11/06/12 12:00

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:39	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:39	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 23:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 23:39	1
<b>Manganese</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:39	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 23:39	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:39	1
Zinc	<0.10		0.10	0.020	mg/L		11/13/12 16:00	11/14/12 23:39	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		11/13/12 16:00	11/17/12 21:55	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000096</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 11:02	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.027</b>		0.019	0.0073	mg/Kg	☼	11/15/12 16:00	11/16/12 11:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.54</b>		0.200	0.200	SU			11/08/12 16:13	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-2**

**Lab Sample ID: 500-52070-12**

Date Collected: 11/06/12 12:05

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.24		0.24	0.061	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Benzene	<0.012		0.012	0.0035	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Bromodichloromethane	<0.094		0.094	0.016	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Bromoform	<0.094		0.094	0.021	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Bromomethane	<0.094		0.094	0.032	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
2-Butanone (MEK)	<0.24		0.24	0.069	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Carbon disulfide	<0.24		0.24	0.020	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Carbon tetrachloride	<0.047		0.047	0.012	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Chlorobenzene	<0.047		0.047	0.0067	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Chloroethane	<0.094		0.094	0.020	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Chloroform	<0.047		0.047	0.0096	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Chloromethane	<0.094		0.094	0.022	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
cis-1,2-Dichloroethene	<0.047		0.047	0.0058	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
cis-1,3-Dichloropropene	<0.047		0.047	0.0084	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Dibromochloromethane	<0.094		0.094	0.016	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,1-Dichloroethane	<0.047		0.047	0.0087	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,2-Dichloroethane	<0.047		0.047	0.013	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,1-Dichloroethene	<0.047		0.047	0.014	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,2-Dichloropropane	<0.047		0.047	0.0092	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,3-Dichloropropene, Total	<0.047		0.047	0.0084	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Ethylbenzene	<0.012		0.012	0.0059	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
2-Hexanone	<0.24		0.24	0.026	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Methylene Chloride	<0.24		0.24	0.032	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
4-Methyl-2-pentanone (MIBK)	<0.24		0.24	0.016	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Methyl tert-butyl ether	<0.094		0.094	0.020	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Styrene	<0.047		0.047	0.0046	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,1,2,2-Tetrachloroethane	<0.047		0.047	0.011	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Tetrachloroethene	<0.047		0.047	0.0079	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Toluene	<0.012		0.012	0.0054	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
trans-1,2-Dichloroethene	<0.047		0.047	0.012	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
trans-1,3-Dichloropropene	<0.047		0.047	0.0098	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,1,1-Trichloroethane	<0.047		0.047	0.0094	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
1,1,2-Trichloroethane	<0.047		0.047	0.013	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Trichloroethene	<0.024		0.024	0.0087	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Vinyl chloride	<0.012		0.012	0.0049	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50
Xylenes, Total	<0.024		0.024	0.0032	mg/Kg	☼	11/06/12 12:05	11/13/12 21:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		79 - 120	11/06/12 12:05	11/13/12 21:17	50
Dibromofluoromethane	92		74 - 123	11/06/12 12:05	11/13/12 21:17	50
1,2-Dichloroethane-d4 (Surr)	100		75 - 131	11/06/12 12:05	11/13/12 21:17	50
Toluene-d8 (Surr)	97		80 - 120	11/06/12 12:05	11/13/12 21:17	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-2**

**Lab Sample ID: 500-52070-12**

Date Collected: 11/06/12 12:05

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Fluoranthene</b>	<b>0.027</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Pyrene</b>	<b>0.032</b>	<b>J</b>	0.038	0.014	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.038	0.0080	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Chrysene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0087	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-2**

**Lab Sample ID: 500-52070-12**

Date Collected: 11/06/12 12:05

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Benzo[b]fluoranthene</b>	<b>0.029</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Benzo[a]pyrene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Benzo[g,h,i]perylene</b>	<b>0.019</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/15/12 07:23	11/21/12 16:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	73		30 - 110				11/15/12 07:23	11/21/12 16:24	1
Phenol-d5	79		31 - 110				11/15/12 07:23	11/21/12 16:24	1
Nitrobenzene-d5	69		30 - 115				11/15/12 07:23	11/21/12 16:24	1
2-Fluorobiphenyl	79		30 - 119				11/15/12 07:23	11/21/12 16:24	1
2,4,6-Tribromophenol	117		35 - 137				11/15/12 07:23	11/21/12 16:24	1
Terphenyl-d14	87		36 - 134				11/15/12 07:23	11/21/12 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Arsenic</b>	<b>4.2</b>		0.58	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Barium</b>	<b>14</b>		0.58	0.069	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Beryllium</b>	<b>0.36</b>		0.23	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Boron</b>	<b>5.5</b>		2.9	0.54	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Cadmium</b>	<b>0.089</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Calcium</b>	<b>23000</b>	<b>B</b>	12	2.0	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Chromium</b>	<b>7.1</b>		0.58	0.096	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Cobalt</b>	<b>4.9</b>		0.29	0.030	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Copper</b>	<b>15</b>		0.58	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Iron</b>	<b>10000</b>		12	5.0	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Lead</b>	<b>9.7</b>		0.29	0.099	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Magnesium</b>	<b>13000</b>		5.8	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Manganese</b>	<b>200</b>		0.58	0.081	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Nickel</b>	<b>14</b>		0.58	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Potassium</b>	<b>1000</b>		29	3.3	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Sodium</b>	<b>110</b>	<b>B</b>	58	11	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Vanadium</b>	<b>11</b>		0.29	0.044	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1
<b>Zinc</b>	<b>29</b>		1.2	0.40	mg/Kg	☼	11/07/12 10:35	11/16/12 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 23:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 23:46	1
<b>Boron</b>	<b>0.060</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 23:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 23:46	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B03-2**

**Lab Sample ID: 500-52070-12**

Date Collected: 11/06/12 12:05

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:46	1
<b>Cobalt</b>	<b>0.036</b>		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:46	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:46	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 23:46	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 23:46	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:46	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:46	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 23:46	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:46	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		11/13/12 16:00	11/14/12 23:46	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		11/13/12 16:00	11/17/12 21:56	1
Thallium	<0.0020	<b>^</b>	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000092</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 11:04	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.016</b>	<b>J</b>	0.018	0.0070	mg/Kg	☼	11/15/12 16:00	11/16/12 11:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.79</b>		0.200	0.200	SU			11/08/12 16:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-1**

**Lab Sample ID: 500-52070-13**

**Date Collected: 11/06/12 12:10**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**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	0.0021	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Carbon disulfide	<0.0049		0.0049	0.00074	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,1-Dichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	11/06/12 12:10	11/09/12 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/06/12 12:10	11/09/12 17:28	1
Dibromofluoromethane	89		73 - 122	11/06/12 12:10	11/09/12 17:28	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/06/12 12:10	11/09/12 17:28	1
Toluene-d8 (Surr)	91		72 - 122	11/06/12 12:10	11/09/12 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-1**

**Lab Sample ID: 500-52070-13**

Date Collected: 11/06/12 12:10

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Naphthalene</b>	<b>0.40</b>		0.042	0.0081	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,4,6-Trichlorophenol	<0.42		0.42	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>2-Methylnaphthalene</b>	<b>0.20 J</b>		0.21	0.054	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Acenaphthylene</b>	<b>0.14</b>		0.042	0.0096	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Acenaphthene</b>	<b>0.42</b>		0.042	0.012	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Dibenzofuran</b>	<b>0.25</b>		0.21	0.050	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
4-Nitrophenol	<0.84		0.84	0.23	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Fluorene</b>	<b>0.38</b>		0.042	0.0095	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Phenanthrene</b>	<b>1.3</b>		0.042	0.017	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Anthracene</b>	<b>0.86</b>		0.042	0.0098	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Carbazole</b>	<b>0.087 J</b>		0.21	0.059	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Fluoranthene</b>	<b>2.2</b>		0.042	0.017	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Pyrene</b>	<b>1.8</b>		0.042	0.015	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Benzo[a]anthracene</b>	<b>1.1</b>		0.042	0.0088	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Chrysene</b>	<b>0.94</b>		0.042	0.0094	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-1**

**Lab Sample ID: 500-52070-13**

Date Collected: 11/06/12 12:10

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Benzo[b]fluoranthene</b>	<b>0.99</b>		0.042	0.0081	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Benzo[k]fluoranthene</b>	<b>0.33</b>		0.042	0.010	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Benzo[a]pyrene</b>	<b>0.57</b>		0.042	0.0076	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.28</b>		0.042	0.014	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Dibenz(a,h)anthracene</b>	<b>0.13</b>		0.042	0.012	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
<b>Benzo[g,h,i]perylene</b>	<b>0.34</b>		0.042	0.014	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	11/15/12 07:23	11/21/12 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110				11/15/12 07:23	11/21/12 16:43	1
Phenol-d5	69		31 - 110				11/15/12 07:23	11/21/12 16:43	1
Nitrobenzene-d5	63		30 - 115				11/15/12 07:23	11/21/12 16:43	1
2-Fluorobiphenyl	74		30 - 119				11/15/12 07:23	11/21/12 16:43	1
2,4,6-Tribromophenol	120		35 - 137				11/15/12 07:23	11/21/12 16:43	1
Terphenyl-d14	76		36 - 134				11/15/12 07:23	11/21/12 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Arsenic</b>	<b>5.8</b>		0.62	0.14	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Barium</b>	<b>87</b>		0.62	0.074	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Beryllium</b>	<b>0.87</b>		0.25	0.018	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Boron</b>	<b>10</b>		3.1	0.58	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Cadmium</b>	<b>0.25</b>		0.12	0.031	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Calcium</b>	<b>20000</b>	<b>B</b>	12	2.2	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Chromium</b>	<b>20</b>		0.62	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Cobalt</b>	<b>7.3</b>		0.31	0.033	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Copper</b>	<b>26</b>		0.62	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Iron</b>	<b>21000</b>		12	5.4	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Lead</b>	<b>21</b>		0.31	0.11	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Magnesium</b>	<b>6000</b>		6.2	1.2	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Manganese</b>	<b>260</b>		0.62	0.088	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Nickel</b>	<b>21</b>		0.62	0.14	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Potassium</b>	<b>1800</b>		31	3.5	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Selenium</b>	<b>0.29</b>	<b>J</b>	0.62	0.18	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Sodium</b>	<b>180</b>	<b>B</b>	62	11	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Thallium</b>	<b>0.39</b>	<b>J</b>	0.62	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Vanadium</b>	<b>24</b>		0.31	0.047	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1
<b>Zinc</b>	<b>62</b>		1.2	0.43	mg/Kg	☼	11/07/12 10:35	11/16/12 04:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 23:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 23:52	1
<b>Boron</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 23:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 23:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-1**

**Lab Sample ID: 500-52070-13**

Date Collected: 11/06/12 12:10

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:52	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:52	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:52	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 23:52	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 23:52	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:52	1
Nickel	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:52	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 23:52	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:52	1
<b>Zinc</b>	<b>0.025</b>	<b>J</b>	0.10	0.020	mg/L		11/13/12 16:00	11/14/12 23:52	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		11/13/12 16:00	11/17/12 21:57	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00011</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 11:06	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.021	0.0080	mg/Kg	☼	11/15/12 16:00	11/16/12 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.60</b>		0.200	0.200	SU			11/08/12 16:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-2**

**Lab Sample ID: 500-52070-14**

**Date Collected: 11/06/12 12:15**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Bromodichloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Carbon tetrachloride	<0.0049		0.0049	0.00090	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Chloroform	<0.0049		0.0049	0.00057	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00070	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Dibromochloromethane	<0.0049		0.0049	0.00086	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,2-Dichloropropane	<0.0049		0.0049	0.00075	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Styrene	<0.0049		0.0049	0.00065	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1
Xylenes, Total	<0.0098		0.0098	0.00045	mg/Kg	☼	11/06/12 12:15	11/09/12 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/06/12 12:15	11/09/12 17:51	1
Dibromofluoromethane	88		73 - 122	11/06/12 12:15	11/09/12 17:51	1
1,2-Dichloroethane-d4 (Surr)	84		74 - 123	11/06/12 12:15	11/09/12 17:51	1
Toluene-d8 (Surr)	96		72 - 122	11/06/12 12:15	11/09/12 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-2**

**Lab Sample ID: 500-52070-14**

Date Collected: 11/06/12 12:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Hexachlorobenzene	<0.075		0.075	0.0074	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.037	0.016	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Anthracene</b>	<b>0.0097</b>	<b>J</b>	0.037	0.0088	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.037	0.015	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Pyrene</b>	<b>0.019</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Benzo[a]anthracene</b>	<b>0.012</b>	<b>J</b>	0.037	0.0078	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-2**

**Lab Sample ID: 500-52070-14**

Date Collected: 11/06/12 12:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Benzo[b]fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Benzo[k]fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.037	0.0089	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Benzo[a]pyrene</b>	<b>0.013</b>	<b>J</b>	0.037	0.0068	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
<b>Benzo[g,h,i]perylene</b>	<b>0.018</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/15/12 07:23	11/21/12 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		30 - 110	11/15/12 07:23	11/21/12 17:03	1
Phenol-d5	82		31 - 110	11/15/12 07:23	11/21/12 17:03	1
Nitrobenzene-d5	75		30 - 115	11/15/12 07:23	11/21/12 17:03	1
2-Fluorobiphenyl	82		30 - 119	11/15/12 07:23	11/21/12 17:03	1
2,4,6-Tribromophenol	129		35 - 137	11/15/12 07:23	11/21/12 17:03	1
Terphenyl-d14	85		36 - 134	11/15/12 07:23	11/21/12 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.18</b>	<b>J B</b>	1.1	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Arsenic</b>	<b>3.3</b>		0.57	0.12	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Barium</b>	<b>21</b>		0.57	0.068	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Beryllium</b>	<b>0.26</b>		0.23	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Boron</b>	<b>2.4</b>	<b>J</b>	2.9	0.53	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Calcium</b>	<b>7300</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Chromium</b>	<b>6.0</b>		0.57	0.096	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Cobalt</b>	<b>3.4</b>		0.29	0.030	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Copper</b>	<b>5.5</b>		0.57	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Iron</b>	<b>5500</b>		11	5.0	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Lead</b>	<b>6.3</b>		0.29	0.099	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Magnesium</b>	<b>4500</b>		5.7	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Manganese</b>	<b>77</b>		0.57	0.081	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Nickel</b>	<b>8.1</b>		0.57	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Potassium</b>	<b>460</b>		29	3.2	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Sodium</b>	<b>73</b>	<b>B</b>	57	10	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Vanadium</b>	<b>7.5</b>		0.29	0.043	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1
<b>Zinc</b>	<b>17</b>		1.1	0.39	mg/Kg	☼	11/07/12 10:35	11/16/12 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/14/12 23:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/14/12 23:59	1
<b>Boron</b>	<b>0.090</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/14/12 23:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/14/12 23:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B04-2**

**Lab Sample ID: 500-52070-14**

Date Collected: 11/06/12 12:15

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:59	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:59	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:59	1
Iron	<0.20		0.20	0.20	mg/L		11/13/12 16:00	11/14/12 23:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/14/12 23:59	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/14/12 23:59	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/14/12 23:59	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/14/12 23:59	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.10	0.020	mg/L		11/13/12 16:00	11/14/12 23:59	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		11/13/12 16:00	11/17/12 22:00	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00011</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 11:11	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.015</b>	<b>J</b>	0.019	0.0071	mg/Kg	☼	11/15/12 16:00	11/16/12 11:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.44</b>		0.200	0.200	SU			11/08/12 16:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-1**

**Lab Sample ID: 500-52070-15**

Date Collected: 11/06/12 12:20

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,1-Dichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,2-Dichloropropane	<0.0050		0.0050	0.00077	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
<b>Methylene Chloride</b>	<b>0.0057</b>		0.0050	0.0014	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Toluene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/06/12 12:20	11/09/12 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		76 - 120	11/06/12 12:20	11/09/12 18:14	1
Dibromofluoromethane	93		73 - 122	11/06/12 12:20	11/09/12 18:14	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/06/12 12:20	11/09/12 18:14	1
Toluene-d8 (Surr)	93		72 - 122	11/06/12 12:20	11/09/12 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.064	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-1**

**Lab Sample ID: 500-52070-15**

Date Collected: 11/06/12 12:20

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.054	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Hexachloroethane	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2-Chlorophenol	<0.20		0.20	0.058	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Nitrobenzene	<0.040		0.040	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,4-Dimethylphenol	<0.40		0.40	0.13	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Hexachlorobutadiene	<0.20		0.20	0.053	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Naphthalene</b>	<b>0.36</b>		0.040	0.0078	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,4,6-Trichlorophenol	<0.40		0.40	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,4,5-Trichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>2-Methylnaphthalene</b>	<b>0.54</b>		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2-Nitroaniline	<0.20		0.20	0.073	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2-Chloronaphthalene	<0.20		0.20	0.046	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.048	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2-Nitrophenol	<0.40		0.40	0.063	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
3-Nitroaniline	<0.40		0.40	0.078	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Acenaphthylene</b>	<b>0.034 J</b>		0.040	0.0093	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Acenaphthene</b>	<b>0.024 J</b>		0.040	0.012	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Dibenzofuran</b>	<b>0.18 J</b>		0.20	0.049	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Fluorene</b>	<b>0.030 J</b>		0.040	0.0092	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
4-Nitroaniline	<0.40		0.40	0.083	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.064	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.055	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.098	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Phenanthrene</b>	<b>0.60</b>		0.040	0.017	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Anthracene</b>	<b>0.061</b>		0.040	0.0095	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Carbazole	<0.20		0.20	0.057	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Di-n-butyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Fluoranthene</b>	<b>0.26</b>		0.040	0.017	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Pyrene</b>	<b>0.20</b>		0.040	0.015	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Butyl benzyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Benzo[a]anthracene</b>	<b>0.14</b>		0.040	0.0085	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Chrysene</b>	<b>0.13</b>		0.040	0.0091	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-1**

**Lab Sample ID: 500-52070-15**

Date Collected: 11/06/12 12:20

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.034	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.054	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
Di-n-octyl phthalate	<0.20		0.20	0.082	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Benzo[b]fluoranthene</b>	<b>0.12</b>		0.040	0.0079	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Benzo[k]fluoranthene</b>	<b>0.085</b>		0.040	0.0096	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Benzo[a]pyrene</b>	<b>0.11</b>		0.040	0.0074	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.063</b>		0.040	0.014	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Dibenz(a,h)anthracene</b>	<b>0.013</b>	J	0.040	0.011	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Benzo[g,h,i]perylene</b>	<b>0.080</b>		0.040	0.014	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
3 & 4 Methylphenol	<0.20		0.20	0.077	mg/Kg	☼	11/15/12 07:23	11/21/12 17:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	63		30 - 110				11/15/12 07:23	11/21/12 17:22	1
Phenol-d5	72		31 - 110				11/15/12 07:23	11/21/12 17:22	1
Nitrobenzene-d5	63		30 - 115				11/15/12 07:23	11/21/12 17:22	1
2-Fluorobiphenyl	71		30 - 119				11/15/12 07:23	11/21/12 17:22	1
2,4,6-Tribromophenol	117		35 - 137				11/15/12 07:23	11/21/12 17:22	1
Terphenyl-d14	75		36 - 134				11/15/12 07:23	11/21/12 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Arsenic</b>	<b>8.8</b>		0.59	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Barium</b>	<b>98</b>		0.59	0.070	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Beryllium</b>	<b>1.4</b>		0.24	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Boron</b>	<b>18</b>		2.9	0.55	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Cadmium</b>	<b>0.34</b>		0.12	0.029	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Calcium</b>	<b>5400</b>	B	12	2.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Chromium</b>	<b>14</b>		0.59	0.098	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Cobalt</b>	<b>35</b>		0.29	0.031	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Copper</b>	<b>34</b>		0.59	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Iron</b>	<b>33000</b>		12	5.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Lead</b>	<b>66</b>		0.29	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Magnesium</b>	<b>3000</b>		5.9	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Manganese</b>	<b>2800</b>		5.9	0.83	mg/Kg	☼	11/07/12 10:35	11/16/12 13:59	10
<b>Nickel</b>	<b>23</b>		0.59	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Potassium</b>	<b>1200</b>		29	3.3	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Selenium</b>	<b>0.25</b>	J	0.59	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Silver</b>	<b>0.078</b>	J	0.29	0.035	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Sodium</b>	<b>430</b>	B	59	11	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Thallium</b>	<b>0.95</b>		0.59	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Vanadium</b>	<b>22</b>		0.29	0.045	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1
<b>Zinc</b>	<b>56</b>		1.2	0.40	mg/Kg	☼	11/07/12 10:35	11/16/12 04:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.34</b>	J	0.50	0.010	mg/L		11/13/12 16:00	11/15/12 00:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/15/12 00:05	1
<b>Boron</b>	<b>0.10</b>	J	0.50	0.050	mg/L		11/13/12 16:00	11/15/12 00:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/15/12 00:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-1**

**Lab Sample ID: 500-52070-15**

Date Collected: 11/06/12 12:20

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:05	1
<b>Cobalt</b>	<b>0.062</b>		0.025	0.0050	mg/L		11/13/12 16:00	11/15/12 00:05	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:05	1
<b>Iron</b>	<b>1.1</b>		0.20	0.20	mg/L		11/13/12 16:00	11/15/12 00:05	1
<b>Lead</b>	<b>0.0071</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/13/12 16:00	11/15/12 00:05	1
<b>Manganese</b>	<b>5.8</b>		0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:05	1
<b>Nickel</b>	<b>0.060</b>		0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:05	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/15/12 00:05	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/15/12 00:05	1
<b>Zinc</b>	<b>0.079</b>	<b>J</b>	0.10	0.020	mg/L		11/13/12 16:00	11/15/12 00:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		11/19/12 08:00	11/19/12 19:13	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		11/13/12 16:00	11/17/12 22:01	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000099</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 11:13	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.020	0.0075	mg/Kg	☼	11/15/12 16:00	11/16/12 11:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.75</b>		0.200	0.200	SU			11/08/12 16:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-2**

**Lab Sample ID: 500-52070-16**

Date Collected: 11/06/12 12:25

Matrix: Solid

Date Received: 11/06/12 15:30

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	0.0021	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00069	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00064	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,2-Dichloropropane	<0.0048		0.0048	0.00074	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00064	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
<b>Methylene Chloride</b>	<b>0.019</b>		0.0048	0.0013	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Styrene	<0.0048		0.0048	0.00064	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	11/06/12 12:25	11/09/12 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/06/12 12:25	11/09/12 18:36	1
Dibromofluoromethane	94		73 - 122	11/06/12 12:25	11/09/12 18:36	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/06/12 12:25	11/09/12 18:36	1
Toluene-d8 (Surr)	94		72 - 122	11/06/12 12:25	11/09/12 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-2**

**Lab Sample ID: 500-52070-16**

Date Collected: 11/06/12 12:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
<b>Naphthalene</b>	<b>0.0078</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Hexachlorobenzene	<0.079		0.079	0.0078	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
<b>Phenanthrene</b>	<b>0.019</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
<b>Fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.014	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-2**

**Lab Sample ID: 500-52070-16**

Date Collected: 11/06/12 12:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
<b>Benzo[b]fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
<b>Benzo[a]pyrene</b>	<b>0.0076</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/15/12 07:23	11/21/12 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		30 - 110	11/15/12 07:23	11/21/12 17:42	1
Phenol-d5	72		31 - 110	11/15/12 07:23	11/21/12 17:42	1
Nitrobenzene-d5	66		30 - 115	11/15/12 07:23	11/21/12 17:42	1
2-Fluorobiphenyl	70		30 - 119	11/15/12 07:23	11/21/12 17:42	1
2,4,6-Tribromophenol	132		35 - 137	11/15/12 07:23	11/21/12 17:42	1
Terphenyl-d14	81		36 - 134	11/15/12 07:23	11/21/12 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Arsenic</b>	<b>7.4</b>		0.59	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Barium</b>	<b>32</b>		0.59	0.070	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Beryllium</b>	<b>0.53</b>		0.24	0.017	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Boron</b>	<b>5.7</b>		3.0	0.55	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Cadmium</b>	<b>0.13</b>		0.12	0.029	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Calcium</b>	<b>16000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Chromium</b>	<b>11</b>		0.59	0.099	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Cobalt</b>	<b>6.6</b>		0.30	0.031	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Copper</b>	<b>18</b>		0.59	0.16	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Iron</b>	<b>18000</b>		12	5.1	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Lead</b>	<b>12</b>		0.30	0.10	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Magnesium</b>	<b>10000</b>		5.9	1.1	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Manganese</b>	<b>180</b>		0.59	0.084	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Nickel</b>	<b>18</b>		0.59	0.13	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Potassium</b>	<b>1200</b>		30	3.4	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Sodium</b>	<b>240</b>	<b>B</b>	59	11	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Vanadium</b>	<b>16</b>		0.30	0.045	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1
<b>Zinc</b>	<b>36</b>		1.2	0.41	mg/Kg	☼	11/07/12 10:35	11/16/12 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.010	mg/L		11/13/12 16:00	11/15/12 00:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/13/12 16:00	11/15/12 00:12	1
<b>Boron</b>	<b>0.083</b>	<b>J</b>	0.50	0.050	mg/L		11/13/12 16:00	11/15/12 00:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/13/12 16:00	11/15/12 00:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

**Client Sample ID: 2034A-12-B02-2**

**Lab Sample ID: 500-52070-16**

Date Collected: 11/06/12 12:25

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/15/12 00:12	1
Copper	<0.025		0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:12	1
<b>Iron</b>	<b>0.28</b>		0.20	0.20	mg/L		11/13/12 16:00	11/15/12 00:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/13/12 16:00	11/15/12 00:12	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:12	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		11/13/12 16:00	11/15/12 00:12	1
Selenium	<0.050		0.050	0.010	mg/L		11/13/12 16:00	11/15/12 00:12	1
Silver	<0.025		0.025	0.0050	mg/L		11/13/12 16:00	11/15/12 00:12	1
Zinc	<0.10		0.10	0.020	mg/L		11/13/12 16:00	11/15/12 00:12	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		11/13/12 16:00	11/17/12 22:02	1
Thallium	<0.0020	<b>^</b>	0.0020	0.0020	mg/L		11/13/12 16:00	11/17/12 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000096</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 11:15	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.020	0.0076	mg/Kg	☼	11/15/12 16:00	11/16/12 11:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.01</b>		0.200	0.200	SU			11/08/12 16:31	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	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
B	Compound was found in the blank and sample.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
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	MS or MSD exceeds the control limits
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52070-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13





# 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: 1394  
 Project No.: IDOT2011-054  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other  
 Sampler: SR/cm/mm

COC No.: 1 of 14  
 Lab Job No.: 070  
500-52069  
 Sample Temp: (34) (32)

**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	
1	2169-30-B05	11/5/12	4:30	S	X						X	X	X	X		0-6'	
2	2169-30-B02		4:10	S												0-6'	
3	2169-28-B01		4:15	S												0-2'	
4	2169-28-B02		4:20	S												0-2'	
5	2169-28-B03		4:25	S												0-2'	
6	2169-28-B04		4:35	S												0-2'	
7	2169-28-B05		4:40	S												0-2'	
8	2169-21-B01	11/6/12	7:30	S	X						X	X	X	X		0-2'	
9	2034A-12-B08-1		8:30													0-4.5'	
10	2034A-12-B08-2		8:35													4.5-9'	
11	2034A-12-B07-1		8:40													0-4.5'	
12	2034A-12-B07-2		8:45													4.5-9'	
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	11/6/12 15:15
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	11/6/12 16:30
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>										Date/Time	11/12 0700



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>IL 30</u>	<b>COC No.:</b> <u>2</u> of <u>4</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>053</u>	Lab Job No.: <u>070</u> <u>500-52069</u>
		TAT: <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 10 BD <input type="checkbox"/> 15 BD <input type="checkbox"/> 20 BD <input type="checkbox"/> 25 BD <input type="checkbox"/> 30 BD <input type="checkbox"/> 35 BD <input type="checkbox"/> 40 BD <input type="checkbox"/> 45 BD <input type="checkbox"/> 50 BD <input type="checkbox"/> 55 BD <input type="checkbox"/> 60 BD <input type="checkbox"/> 65 BD <input type="checkbox"/> 70 BD <input type="checkbox"/> 75 BD <input type="checkbox"/> 80 BD <input type="checkbox"/> 85 BD <input type="checkbox"/> 90 BD <input type="checkbox"/> 95 BD <input type="checkbox"/> 100 BD	Sample Temp: _____
		<b>Sampler:</b> <u>MTN</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 / <i>None</i>	TCLP/SPLP Metals	pH	% Solids		Waste Characterization	
56	2034A-12-B06-1	11-6-12	8:50	SOIL	X							X	X	X			0-4.5'
67	2034A-12-B06-2		8:55		X							X	X	X			4.5-9'
78	2034A-12-B05-1		9:00		X							X	X	X			0-4.5'
89	2034A-12-B05-2		9:05		X							X	X	X			4.5-9'
910	2034A-12-B09-1		9:10		X							X	X	X			0-4.5'
1011	2034A-12-B09-2		9:15		X							X	X	X			4.5-9'
1112	2034A-12-B03-1		12:00		X							X	X	X			0-4.5'
1213	2034A-12-B03-2		12:05		X							X	X	X			4.5-9'
1314	2034A-12-B04-1		12:10		X							X	X	X			0-4.5'
1415	2034A-12-B04-2		12:15		X							X	X	X			4.5-9'
1516	2034A-12-B02-1		12:20		X							X	X	X			0-4.5'
1617	2034A-12-B02-2		12:25		X							X	X	X			4.5-9'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/6/12 15:18</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/6/12 15:30</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/6/12 16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/7/12 0700</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

December 11, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120035

Dear Colleen Grey:

TEKLAB, INC received 19 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120035

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	24
Receiving Check List	26
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120035

**Client Project:** IDOT2011-053

**Report Date:** 11-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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120035

**Client Project:** IDOT2011-053

**Report Date:** 11-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-004

Client Sample ID: 2034A-12-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 14:55

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>0.0921</b>	mg/L	1	12/06/2013 19:52	94357



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-005

Client Sample ID: 2034A-12-B02-2

Matrix: SOLID

Collection Date: 11/26/2013 15:00

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	0.0016	0.005		<b>0.0597</b>	mg/L	1	12/06/2013 19:58	94357





## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-006

Client Sample ID: 2034A-12-B03-1

Matrix: SOLID

Collection Date: 11/26/2013 14:45

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>0.0444</b>	mg/L	1	12/06/2013 17:41	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-007

Client Sample ID: 2034A-12-B03-2

Matrix: SOLID

Collection Date: 11/26/2013 14:50

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		<b>0.0052</b>	mg/L	1	12/06/2013 17:45	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-008

Client Sample ID: 2034A-12-B04-1

Matrix: SOLID

Collection Date: 11/26/2013 14:30

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>0.0292</b>	mg/L	1	12/06/2013 17:56	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-009

Client Sample ID: 2034A-12-B04-2

Matrix: SOLID

Collection Date: 11/26/2013 14:35

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>0.0356</b>	mg/L	1	12/06/2013 18:07	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-010

Client Sample ID: 2034A-12-B05-1

Matrix: SOLID

Collection Date: 11/26/2013 8:05

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	0.0016	0.005		<b>0.0593</b>	mg/L	1	12/06/2013 18:11	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-011

Client Sample ID: 2034A-12-B05-2

Matrix: SOLID

Collection Date: 11/26/2013 8:10

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		0.116	mg/L	1	12/06/2013 18:14	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.  
Client Project: IDOT2011-053  
Lab ID: 13120035-012  
Matrix: SOLID

Work Order: 13120035  
Report Date: 11-Dec-13  
Client Sample ID: 2034A-12-B06-1  
Collection Date: 11/26/2013 8:15

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>0.105</b>	mg/L	1	12/06/2013 18:18	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-013

Client Sample ID: 2034A-12-B06-2

Matrix: SOLID

Collection Date: 11/26/2013 8:20

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		<b>0.103</b>	mg/L	1	12/06/2013 18:22	94358





## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-014

Client Sample ID: 2034A-12-B07-1

Matrix: SOLID

Collection Date: 11/26/2013 8:25

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	0.0016	0.005		0.06	mg/L	1	12/06/2013 18:25	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-015

Client Sample ID: 2034A-12-B07-2

Matrix: SOLID

Collection Date: 11/26/2013 8:30

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>0.0605</b>	mg/L	1	12/06/2013 18:29	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-016

Client Sample ID: 2034A-12-B09-1

Matrix: SOLID

Collection Date: 11/26/2013 8:40

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>0.0395</b>	mg/L	1	12/06/2013 18:33	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120035

Client Project: IDOT2011-053

Report Date: 11-Dec-13

Lab ID: 13120035-017

Client Sample ID: 2034A-12-B09-2

Matrix: SOLID

Collection Date: 11/26/2013 8:45

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>0.0271</b>	mg/L	1	12/06/2013 18:51	94358



### 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~~ **Toklab**  
 Address: ~~2447 Bond Street~~  
 University Park, IL 60484  
 Phone: ~~708-594-5200~~  
 Contact: ~~Dick Wright~~  
 email: ~~dickwright@testamericainc.com~~

**Project Name:** IL 30 Cook Co  
**Project No.:** IDOT 2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other  
**Sampler:** CBG

**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.  
**2034A-12-B08 added for sampling**

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization		
132035	2034A-12-B01-1	11/26/13	1510	S												X	SPLP Mn/*TCLP Mn
202	2034A-12-B01-1 DUP	11/26/13	1515	S													
203	2034A-12-B01-2	11/26/13	1520	S													
204	2034A-12-B02-1	11/26/13	1455	S													
205	2034A-12-B02-2	11/26/13	1500	S													
206	2034A-12-B03-1	11/26/13	1445	S													
207	2034A-12-B03-2	11/26/13	1450	S													
208	2034A-12-B04-1	11/26/13	1430	S													
209	2034A-12-B04-2	11/26/13	1435	S													
210	2034A-12-B05-1		805	S													
211	2034A-12-B05-2		810	S													
212	2034A-12-B06-1		416	S													

**Relinquished by:** [Signature] Date/Time: 11/27/13 4:00pm  
**Received by:** [Signature] Date/Time: 12/2/13 9:25

**Relinquished by:** [Signature] Date/Time: 12/2/13 12:20  
**Received by:** [Signature] Date/Time: 12/13/13 12:00

**Relinquished by:** [Signature] Date/Time: [Blank]  
**Received by:** [Signature] Date/Time: [Blank]

**Matrix Key:**  
 W: Water  
 S: Soil  
 SL: Sludge  
 S: Sediment  
 L: Leachate  
 DW: Drinking Water  
 OL: Oil  
 O: Other



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> IL 30 Cook Co	<b>COC No.:</b> 2 of 2
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: <del>Test America - Chicago</del> <b>Teklab</b> Address: <del>2447 Bond Street</del> University Park, IL 60484 Phone: <del>708-534-5200</del> Contact: <del>Dick Wright</del> email: <del>richardwright@testamericainc.com</del>	<b>Project No.:</b> IDOT 2011-053 <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>Sampler:</b> CB 6	<b>Lab Job No.:</b> 13120035 <b>Sample Temp.:</b>

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments					
					VOCS	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids		Waste Characterization	SPLP Mn/** TCLP Mn			
13120035	2034A-12-B06-2	11/24/13	820	S																
204	2034A-12-B07-1		475	S																
205	2034A-12-B07-2		830	S																
206	2034A-12-B09-1		840	S																
207	2034A-12-B09-2		845	S																
208	2034A-12-B08-1		400	S																
209	2034A-12-B08-2		405	S																

**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.  
 12-308 added for Sampling

Teklab, Inc.  
Courier Pick Up

<b>Relinquished by:</b> [Signature]	<b>Date/Time:</b> 11/27/13 4:00pm	<b>Received by:</b> [Signature]	<b>Date/Time:</b> 12/2/13 9:25
<b>Relinquished by:</b> [Signature]	<b>Date/Time:</b> 12/2/17 1220	<b>Received by:</b> [Signature]	<b>Date/Time:</b> 12/2/13 1220
<b>Relinquished by:</b> [Signature]	<b>Date/Time:</b>	<b>Received by:</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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21800 Block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.49834 Longitude: -87.52875  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.49834 Longitude: -87.52875

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 2034/A-14-B01 THROUGH -B03 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-14. SEE FIGURE 3 AND TABLE 5I 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: 500-52071. TEKLAB WORK ORDER NO.: 13120036.

**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

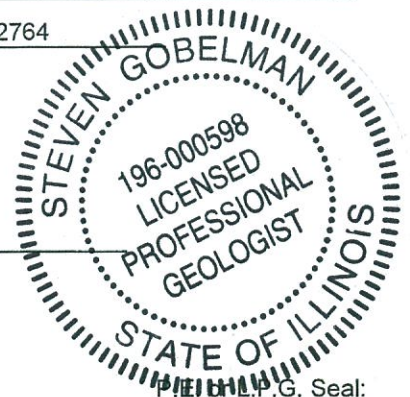
City: Springfield State: IL Zip Code: 62764

Phone: 217.785.4246

Steven Gobelman  
Printed Name:

  
 \_\_\_\_\_  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

3/17/14  
 \_\_\_\_\_  
 Date:



STEVEN GOBELMAN, P.E., L.P.G. 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
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 2034A-14

Vacant Lot

Sample ID	2034A-14-B01-1	2034A-14-B01-1 DUP	2034A-14-B01-2	2034A-14-B02-1	<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	
Sample Depth (ft)	0-4	0-4	4-8	0-4							
Sample Date	11/6/2012	11/6/2012	11/6/2012	11/6/2012							
PID	0	0	0	0							
Sample pH	7.17	7.52	7.49	7.51							
Matrix	Soil	Soil	Soil	Soil							
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>											
Arsenic	8.1	13	1,3	4.4	8.4	11.3	NA	11.3	NA	13	NA

Sample ID	2034A-14-B02-2	2034A-14-B03-1	2034A-14-B03-2	<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
Sample Depth (ft)	4-8	0-4	4-8						
Sample Date	11/6/2012	11/6/2012	11/6/2012						
PID	0	0	0						
Sample pH	8.79	8.02	8.01						
Matrix	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>									
Arsenic	3.8	6	10	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: 500-52071-1

Client Project/Site: IDOT - US Route 30 - WO 053

For:

Andrews Engineering Inc.

3300 Ginger Creek Drive

Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:

11/28/2012 4:00:44 PM

Eric Lang

Project Manager II

[eric.lang@testamericainc.com](mailto:eric.lang@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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# Sample Summary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-52071-1	2034A-14-B03-1	Solid	11/06/12 12:50	11/06/12 15:30
500-52071-2	2034A-14-B03-2	Solid	11/06/12 12:55	11/06/12 15:30
500-52071-3	2034A-13-B05-1	Solid	11/06/12 13:05	11/06/12 15:30
500-52071-4	2034A-13-B05-2	Solid	11/06/12 13:10	11/06/12 15:30
500-52071-5	2034A-14-B01-1	Solid	11/06/12 13:15	11/06/12 15:30
500-52071-6	2034A-14-B01-2	Solid	11/06/12 13:20	11/06/12 15:30
500-52071-7	2034A-14-B01-1DUP	Solid	11/06/12 13:25	11/06/12 15:30
500-52071-8	2034A-14-B02-1	Solid	11/06/12 13:30	11/06/12 15:30
500-52071-9	2034A-14-B02-2	Solid	11/06/12 13:35	11/06/12 15:30
500-52071-10	2034A-13-B04-1	Solid	11/06/12 13:50	11/06/12 15:30
500-52071-11	2034A-13-B04-2	Solid	11/06/12 13:55	11/06/12 15:30
500-52071-12	2034A-16-B05	Solid	11/06/12 14:25	11/06/12 15:30
500-52071-13	2034A-16-B02	Solid	11/06/12 14:50	11/06/12 15:30
500-52071-14	2034A-13-B03-1	Solid	11/06/12 14:55	11/06/12 15:30
500-52071-15	2034A-13-B03-2	Solid	11/06/12 15:00	11/06/12 15:30



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-1**

**Lab Sample ID: 500-52071-1**

**Date Collected: 11/06/12 12:50**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	11/06/12 12:50	11/09/12 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		76 - 120	11/06/12 12:50	11/09/12 18:59	1
Dibromofluoromethane	96		73 - 122	11/06/12 12:50	11/09/12 18:59	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/06/12 12:50	11/09/12 18:59	1
Toluene-d8 (Surr)	93		72 - 122	11/06/12 12:50	11/09/12 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-1**

**Lab Sample ID: 500-52071-1**

**Date Collected: 11/06/12 12:50**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-1**

**Lab Sample ID: 500-52071-1**

Date Collected: 11/06/12 12:50

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.052</b>	<b>J</b>	0.19	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/15/12 07:23	11/26/12 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		30 - 110				11/15/12 07:23	11/26/12 18:50	1
Phenol-d5	71		31 - 110				11/15/12 07:23	11/26/12 18:50	1
Nitrobenzene-d5	77		30 - 115				11/15/12 07:23	11/26/12 18:50	1
2-Fluorobiphenyl	81		30 - 119				11/15/12 07:23	11/26/12 18:50	1
2,4,6-Tribromophenol	83		35 - 137				11/15/12 07:23	11/26/12 18:50	1
Terphenyl-d14	97		36 - 134				11/15/12 07:23	11/26/12 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Arsenic</b>	<b>6.0</b>		0.58	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Barium</b>	<b>33</b>		0.58	0.069	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Beryllium</b>	<b>0.30</b>		0.23	0.017	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Boron</b>	<b>1.7</b>	<b>J</b>	2.9	0.54	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Cadmium</b>	<b>0.034</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Calcium</b>	<b>5600</b>	<b>B</b>	12	2.0	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Chromium</b>	<b>6.9</b>		0.58	0.097	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Cobalt</b>	<b>4.7</b>		0.29	0.030	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Copper</b>	<b>12</b>		0.58	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Iron</b>	<b>9400</b>		12	5.0	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Lead</b>	<b>8.0</b>		0.29	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Magnesium</b>	<b>4100</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Manganese</b>	<b>280</b>		0.58	0.082	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Nickel</b>	<b>12</b>		0.58	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Potassium</b>	<b>400</b>		29	3.3	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Sodium</b>	<b>58</b>	<b>B</b>	58	11	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Thallium</b>	<b>0.30</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Vanadium</b>	<b>10</b>		0.29	0.044	mg/Kg	☼	11/07/12 16:30	11/16/12 05:43	1
<b>Zinc</b>	<b>37</b>		1.1	0.39	mg/Kg	☼	11/16/12 16:00	11/17/12 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.28</b>	<b>J B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 02:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 02:49	1
<b>Boron</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 02:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 02:49	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-1**

**Lab Sample ID: 500-52071-1**

Date Collected: 11/06/12 12:50

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:49	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 02:49	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:49	1
Iron	<0.20		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 02:49	1
<b>Lead</b>	<b>0.0059</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 02:49	1
<b>Manganese</b>	<b>0.87</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:49	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:49	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 02:49	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 02:49	1
Zinc	<0.10		0.10	0.020	mg/L		11/14/12 10:00	11/15/12 02:49	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		11/14/12 10:00	11/17/12 22:17	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0064	mg/Kg	☼	11/15/12 16:00	11/16/12 11:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.02</b>		0.200	0.200	SU			11/10/12 11:14	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-2**

**Lab Sample ID: 500-52071-2**

Date Collected: 11/06/12 12:55

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0062		0.0062	0.0027	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Benzene	<0.0062		0.0062	0.00085	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Bromodichloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Bromoform	<0.0062		0.0062	0.0014	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Bromomethane	<0.0062		0.0062	0.0019	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
2-Butanone (MEK)	<0.0062		0.0062	0.0022	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Carbon disulfide	<0.0062		0.0062	0.00092	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Carbon tetrachloride	<0.0062		0.0062	0.0011	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Chlorobenzene	<0.0062		0.0062	0.00063	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Chloroethane	<0.0062		0.0062	0.0017	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Chloroform	<0.0062		0.0062	0.00071	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Chloromethane	<0.0062		0.0062	0.0013	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.00087	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.00081	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Dibromochloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,1-Dichloroethane	<0.0062		0.0062	0.00098	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,2-Dichloroethane	<0.0062		0.0062	0.00092	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,1-Dichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,2-Dichloropropane	<0.0062		0.0062	0.00094	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,3-Dichloropropene, Total	<0.0062		0.0062	0.00081	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Ethylbenzene	<0.0062		0.0062	0.0012	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
2-Hexanone	<0.0062		0.0062	0.0018	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Methylene Chloride	<0.0062		0.0062	0.0017	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
4-Methyl-2-pentanone (MIBK)	<0.0062		0.0062	0.0016	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Methyl tert-butyl ether	<0.0062		0.0062	0.0010	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Styrene	<0.0062		0.0062	0.00081	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,1,2,2-Tetrachloroethane	<0.0062		0.0062	0.0012	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Tetrachloroethene	<0.0062		0.0062	0.00094	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Toluene	<0.0062		0.0062	0.00087	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.00085	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.0011	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.00092	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.00084	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Trichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Vinyl chloride	<0.0062		0.0062	0.0013	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1
Xylenes, Total	<0.012		0.012	0.00056	mg/Kg	☼	11/06/12 12:55	11/09/12 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/06/12 12:55	11/09/12 19:22	1
Dibromofluoromethane	88		73 - 122	11/06/12 12:55	11/09/12 19:22	1
1,2-Dichloroethane-d4 (Surr)	83		74 - 123	11/06/12 12:55	11/09/12 19:22	1
Toluene-d8 (Surr)	94		72 - 122	11/06/12 12:55	11/09/12 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.067	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-2**

**Lab Sample ID: 500-52071-2**

Date Collected: 11/06/12 12:55

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.054	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Hexachlorocyclopentadiene	<0.85		0.85	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2-Methylnaphthalene	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2-Nitroaniline	<0.21		0.21	0.076	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,4-Dinitrophenol	<0.85		0.85	0.22	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Acenaphthylene	<0.042		0.042	0.0097	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Dibenzofuran	<0.21		0.21	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Fluorene	<0.042		0.042	0.0096	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Hexachlorobenzene	<0.085		0.085	0.0083	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Butyl benzyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.042	0.0095	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-2**

**Lab Sample ID: 500-52071-2**

Date Collected: 11/06/12 12:55

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.056</b>	<b>J</b>	0.21	0.056	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Di-n-octyl phthalate	<0.21		0.21	0.086	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Benzo[b]fluoranthene	<0.042		0.042	0.0082	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Benzo[a]pyrene	<0.042		0.042	0.0077	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1
3 & 4 Methylphenol	<0.21		0.21	0.080	mg/Kg	☼	11/15/12 07:23	11/26/12 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		30 - 110	11/15/12 07:23	11/26/12 19:08	1
Phenol-d5	58		31 - 110	11/15/12 07:23	11/26/12 19:08	1
Nitrobenzene-d5	62		30 - 115	11/15/12 07:23	11/26/12 19:08	1
2-Fluorobiphenyl	73		30 - 119	11/15/12 07:23	11/26/12 19:08	1
2,4,6-Tribromophenol	72		35 - 137	11/15/12 07:23	11/26/12 19:08	1
Terphenyl-d14	87		36 - 134	11/15/12 07:23	11/26/12 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Arsenic</b>	<b>10</b>		0.59	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Barium</b>	<b>9.4</b>		0.59	0.071	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Beryllium</b>	<b>0.26</b>		0.24	0.017	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Boron</b>	<b>4.2</b>		3.0	0.55	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Cadmium</b>	<b>0.12</b>		0.12	0.029	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Calcium</b>	<b>37000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Chromium</b>	<b>5.8</b>		0.59	0.099	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Cobalt</b>	<b>8.2</b>		0.30	0.031	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Copper</b>	<b>17</b>		0.59	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Iron</b>	<b>9200</b>		12	5.2	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Lead</b>	<b>9.1</b>		0.30	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Magnesium</b>	<b>19000</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Manganese</b>	<b>330</b>		0.59	0.084	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Nickel</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Potassium</b>	<b>800</b>		30	3.4	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Sodium</b>	<b>150</b>	<b>B</b>	59	11	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Thallium</b>	<b>0.25</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Vanadium</b>	<b>8.2</b>		0.30	0.045	mg/Kg	☼	11/07/12 16:30	11/16/12 05:49	1
<b>Zinc</b>	<b>31</b>		1.2	0.43	mg/Kg	☼	11/16/12 16:00	11/17/12 10:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.32</b>	<b>J B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 02:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 02:56	1
<b>Boron</b>	<b>0.068</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 02:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 02:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B03-2**

**Lab Sample ID: 500-52071-2**

Date Collected: 11/06/12 12:55

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:56	1
<b>Cobalt</b>	<b>0.073</b>		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 02:56	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:56	1
<b>Iron</b>	<b>0.37</b>		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 02:56	1
<b>Lead</b>	<b>0.0065</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 02:56	1
<b>Manganese</b>	<b>8.2</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:56	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 02:56	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 02:56	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 02:56	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		11/14/12 10:00	11/15/12 02:56	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		11/14/12 10:00	11/17/12 22:18	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:25	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>	<b>B</b>	0.020	0.0077	mg/Kg	☼	11/15/12 16:00	11/16/12 12:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.01</b>		0.200	0.200	SU			11/10/12 11:17	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1**

**Lab Sample ID: 500-52071-5**

Date Collected: 11/06/12 13:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	11/06/12 13:15	11/12/12 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		76 - 120	11/06/12 13:15	11/12/12 13:00	1
Dibromofluoromethane	94		73 - 122	11/06/12 13:15	11/12/12 13:00	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/06/12 13:15	11/12/12 13:00	1
Toluene-d8 (Surr)	99		72 - 122	11/06/12 13:15	11/12/12 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1**

**Lab Sample ID: 500-52071-5**

Date Collected: 11/06/12 13:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Naphthalene</b>	<b>0.078</b>		0.039	0.0076	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>2-Methylnaphthalene</b>	<b>0.22</b>		0.20	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Dibenzofuran</b>	<b>0.070 J</b>		0.20	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Phenanthrene</b>	<b>0.75</b>		0.039	0.017	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Anthracene</b>	<b>0.037 J</b>		0.039	0.0093	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Fluoranthene</b>	<b>0.19</b>		0.039	0.016	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Pyrene</b>	<b>0.15</b>		0.039	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Benzo[a]anthracene</b>	<b>0.095</b>		0.039	0.0083	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Chrysene</b>	<b>0.13</b>		0.039	0.0089	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1**

**Lab Sample ID: 500-52071-5**

Date Collected: 11/06/12 13:15

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.057</b>	<b>J</b>	0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Benzo[b]fluoranthene</b>	<b>0.084</b>		0.039	0.0077	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Benzo[k]fluoranthene</b>	<b>0.039</b>		0.039	0.0094	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Benzo[a]pyrene</b>	<b>0.055</b>		0.039	0.0072	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.030</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Dibenz(a,h)anthracene</b>	<b>0.011</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
<b>Benzo[g,h,i]perylene</b>	<b>0.049</b>		0.039	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/15/12 07:23	11/26/12 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110				11/15/12 07:23	11/26/12 20:02	1
Phenol-d5	61		31 - 110				11/15/12 07:23	11/26/12 20:02	1
Nitrobenzene-d5	69		30 - 115				11/15/12 07:23	11/26/12 20:02	1
2-Fluorobiphenyl	74		30 - 119				11/15/12 07:23	11/26/12 20:02	1
2,4,6-Tribromophenol	84		35 - 137				11/15/12 07:23	11/26/12 20:02	1
Terphenyl-d14	87		36 - 134				11/15/12 07:23	11/26/12 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Arsenic</b>	<b>8.1</b>		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Barium</b>	<b>79</b>		0.60	0.071	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Beryllium</b>	<b>0.86</b>		0.24	0.018	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Boron</b>	<b>4.9</b>		3.0	0.56	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Cadmium</b>	<b>0.11</b>	<b>J</b>	0.12	0.030	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Calcium</b>	<b>3700</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Chromium</b>	<b>22</b>		0.60	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Cobalt</b>	<b>9.1</b>		0.30	0.031	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Copper</b>	<b>25</b>		0.60	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Iron</b>	<b>28000</b>		12	5.2	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Lead</b>	<b>16</b>		0.30	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Magnesium</b>	<b>5400</b>	<b>B</b>	6.0	1.2	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Manganese</b>	<b>190</b>		0.60	0.084	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Nickel</b>	<b>27</b>		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Potassium</b>	<b>1400</b>		30	3.4	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Sodium</b>	<b>100</b>	<b>B</b>	60	11	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Thallium</b>	<b>0.27</b>	<b>J</b>	0.60	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Vanadium</b>	<b>23</b>		0.30	0.045	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1
<b>Zinc</b>	<b>60</b>	<b>B</b>	1.2	0.41	mg/Kg	☼	11/07/12 16:30	11/16/12 06:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.24</b>	<b>J B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 03:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 03:15	1
<b>Boron</b>	<b>0.080</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 03:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 03:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1**

**Lab Sample ID: 500-52071-5**

Date Collected: 11/06/12 13:15

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 03:15	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:15	1
Iron	<0.20		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 03:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 03:15	1
<b>Manganese</b>	<b>0.24</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:15	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:15	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 03:15	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 03:15	1
Zinc	<0.10		0.10	0.020	mg/L		11/14/12 10:00	11/15/12 03:15	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		11/14/12 10:00	11/17/12 22:22	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00010</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:30	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.035</b>	<b>B</b>	0.019	0.0074	mg/Kg	☼	11/15/12 16:00	11/16/12 12:15	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			11/10/12 11:26	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-2**

**Lab Sample ID: 500-52071-6**

Date Collected: 11/06/12 13:20

Matrix: Solid

Date Received: 11/06/12 15:30

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	0.0019	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Benzene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Bromodichloromethane	<0.0043		0.0043	0.00075	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Bromoform	<0.0043		0.0043	0.0010	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
2-Butanone (MEK)	<0.0043		0.0043	0.0016	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Carbon disulfide	<0.0043		0.0043	0.00065	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Carbon tetrachloride	<0.0043		0.0043	0.00079	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Chlorobenzene	<0.0043		0.0043	0.00044	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Chloroform	<0.0043		0.0043	0.00050	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Chloromethane	<0.0043		0.0043	0.00091	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Dibromochloromethane	<0.0043		0.0043	0.00076	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,1-Dichloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,1-Dichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,2-Dichloropropane	<0.0043		0.0043	0.00066	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00057	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Ethylbenzene	<0.0043		0.0043	0.00088	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00072	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Styrene	<0.0043		0.0043	0.00057	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Tetrachloroethene	<0.0043		0.0043	0.00066	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Toluene	<0.0043		0.0043	0.00061	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00078	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00059	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Trichloroethene	<0.0043		0.0043	0.00072	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Vinyl chloride	<0.0043		0.0043	0.00091	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1
Xylenes, Total	<0.0087		0.0087	0.00039	mg/Kg	☼	11/06/12 13:20	11/12/12 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		76 - 120	11/06/12 13:20	11/12/12 13:23	1
Dibromofluoromethane	89		73 - 122	11/06/12 13:20	11/12/12 13:23	1
1,2-Dichloroethane-d4 (Surr)	84		74 - 123	11/06/12 13:20	11/12/12 13:23	1
Toluene-d8 (Surr)	94		72 - 122	11/06/12 13:20	11/12/12 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-2**

**Lab Sample ID: 500-52071-6**

**Date Collected: 11/06/12 13:20**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**Percent Solids: 86.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
<b>Phenanthrene</b>	<b>0.051</b>		0.036	0.015	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
<b>Fluoranthene</b>	<b>0.019 J</b>		0.036	0.015	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
<b>Pyrene</b>	<b>0.019 J</b>		0.036	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
<b>Benzo[a]anthracene</b>	<b>0.0097 J</b>		0.036	0.0076	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
<b>Chrysene</b>	<b>0.020 J</b>		0.036	0.0082	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-2**

**Lab Sample ID: 500-52071-6**

Date Collected: 11/06/12 13:20

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.052</b>	<b>J</b>	0.18	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Benzo[k]fluoranthene	<0.036		0.036	0.0086	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
<b>Benzo[a]pyrene</b>	<b>0.0067</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/15/12 07:23	11/26/12 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110				11/15/12 07:23	11/26/12 20:20	1
Phenol-d5	71		31 - 110				11/15/12 07:23	11/26/12 20:20	1
Nitrobenzene-d5	74		30 - 115				11/15/12 07:23	11/26/12 20:20	1
2-Fluorobiphenyl	78		30 - 119				11/15/12 07:23	11/26/12 20:20	1
2,4,6-Tribromophenol	85		35 - 137				11/15/12 07:23	11/26/12 20:20	1
Terphenyl-d14	89		36 - 134				11/15/12 07:23	11/26/12 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Arsenic</b>	<b>4.4</b>		0.57	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Barium</b>	<b>10</b>		0.57	0.068	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Beryllium</b>	<b>0.30</b>		0.23	0.017	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Boron</b>	<b>6.1</b>		2.9	0.54	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.028	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Calcium</b>	<b>48000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Chromium</b>	<b>8.0</b>		0.57	0.096	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Cobalt</b>	<b>3.6</b>		0.29	0.030	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Copper</b>	<b>15</b>		0.57	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Iron</b>	<b>11000</b>		11	5.0	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Lead</b>	<b>10</b>		0.29	0.099	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Magnesium</b>	<b>31000</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Manganese</b>	<b>380</b>		0.57	0.081	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Nickel</b>	<b>11</b>		0.57	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Potassium</b>	<b>720</b>		29	3.3	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Sodium</b>	<b>150</b>	<b>B</b>	57	11	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Vanadium</b>	<b>12</b>		0.29	0.044	mg/Kg	☼	11/07/12 16:30	11/16/12 06:14	1
<b>Zinc</b>	<b>33</b>		1.2	0.40	mg/Kg	☼	11/16/12 16:00	11/17/12 10:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.90</b>	<b>B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 03:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 03:56	1
<b>Boron</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 03:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 03:56	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-2**

**Lab Sample ID: 500-52071-6**

Date Collected: 11/06/12 13:20

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:56	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 03:56	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:56	1
Iron	<0.20		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 03:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 03:56	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:56	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		11/14/12 10:00	11/15/12 03:56	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 03:56	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 03:56	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		11/14/12 10:00	11/15/12 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		11/14/12 10:00	11/17/12 22:26	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00011</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:32	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>	<b>B</b>	0.017	0.0065	mg/Kg	☼	11/15/12 16:00	11/16/12 12:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.49</b>		0.200	0.200	SU			11/10/12 11:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1DUP**

**Lab Sample ID: 500-52071-7**

Date Collected: 11/06/12 13:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0048		0.0048	0.0021	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	11/06/12 13:25	11/12/12 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/06/12 13:25	11/12/12 13:46	1
Dibromofluoromethane	100		73 - 122	11/06/12 13:25	11/12/12 13:46	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/06/12 13:25	11/12/12 13:46	1
Toluene-d8 (Surr)	100		72 - 122	11/06/12 13:25	11/12/12 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1DUP**

**Lab Sample ID: 500-52071-7**

Date Collected: 11/06/12 13:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Naphthalene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>2-Methylnaphthalene</b>	<b>0.054</b>	<b>J</b>	0.20	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Phenanthrene</b>	<b>0.20</b>		0.039	0.016	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Anthracene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0092	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Fluoranthene</b>	<b>0.073</b>		0.039	0.016	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Pyrene</b>	<b>0.051</b>		0.039	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Benzo[a]anthracene</b>	<b>0.032</b>	<b>J</b>	0.039	0.0082	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Chrysene</b>	<b>0.051</b>		0.039	0.0089	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1DUP**

**Lab Sample ID: 500-52071-7**

Date Collected: 11/06/12 13:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.055</b>	<b>J</b>	0.20	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Benzo[b]fluoranthene</b>	<b>0.044</b>		0.039	0.0076	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Benzo[k]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.039	0.0094	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Benzo[a]pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.014</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
<b>Benzo[g,h,i]perylene</b>	<b>0.020</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/15/12 07:23	11/26/12 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110				11/15/12 07:23	11/26/12 20:39	1
Phenol-d5	69		31 - 110				11/15/12 07:23	11/26/12 20:39	1
Nitrobenzene-d5	68		30 - 115				11/15/12 07:23	11/26/12 20:39	1
2-Fluorobiphenyl	75		30 - 119				11/15/12 07:23	11/26/12 20:39	1
2,4,6-Tribromophenol	89		35 - 137				11/15/12 07:23	11/26/12 20:39	1
Terphenyl-d14	91		36 - 134				11/15/12 07:23	11/26/12 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Arsenic</b>	<b>13</b>		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Barium</b>	<b>92</b>		0.60	0.071	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Beryllium</b>	<b>0.90</b>		0.24	0.017	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Boron</b>	<b>5.2</b>		3.0	0.56	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Cadmium</b>	<b>0.18</b>		0.12	0.030	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Calcium</b>	<b>3900</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Chromium</b>	<b>24</b>		0.60	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Cobalt</b>	<b>14</b>		0.30	0.031	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Copper</b>	<b>23</b>		0.60	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Iron</b>	<b>34000</b>		12	5.2	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Lead</b>	<b>17</b>		0.30	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Magnesium</b>	<b>6000</b>	<b>B</b>	6.0	1.2	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Manganese</b>	<b>310</b>		0.60	0.084	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Nickel</b>	<b>30</b>		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Potassium</b>	<b>1500</b>		30	3.4	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Sodium</b>	<b>120</b>	<b>B</b>	60	11	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.60	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Vanadium</b>	<b>23</b>		0.30	0.045	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1
<b>Zinc</b>	<b>67</b>	<b>B</b>	1.2	0.41	mg/Kg	☼	11/07/12 16:30	11/16/12 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 04:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 04:02	1
<b>Boron</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 04:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 04:02	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B01-1DUP**

**Lab Sample ID: 500-52071-7**

Date Collected: 11/06/12 13:25

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:02	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:02	1
Iron	<0.20		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 04:02	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 04:02	1
<b>Manganese</b>	<b>0.049</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:02	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:02	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 04:02	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:02	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.10	0.020	mg/L		11/14/12 10:00	11/15/12 04:02	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		11/14/12 10:00	11/17/12 22:26	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000067</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:41	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.042</b>	<b>B</b>	0.020	0.0076	mg/Kg	☼	11/15/12 16:00	11/16/12 12:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.52</b>		0.200	0.200	SU			11/10/12 11:31	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-1**

**Lab Sample ID: 500-52071-8**

Date Collected: 11/06/12 13:30

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0059		0.0059	0.0026	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Benzene	<0.0059		0.0059	0.00081	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Bromodichloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Bromoform	<0.0059		0.0059	0.0014	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Bromomethane	<0.0059		0.0059	0.0018	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
2-Butanone (MEK)	<0.0059		0.0059	0.0021	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Carbon disulfide	<0.0059		0.0059	0.00089	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Carbon tetrachloride	<0.0059		0.0059	0.0011	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Chlorobenzene	<0.0059		0.0059	0.00060	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Chloroethane	<0.0059		0.0059	0.0016	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Chloroform	<0.0059		0.0059	0.00068	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Chloromethane	<0.0059		0.0059	0.0012	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.00084	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.00078	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Dibromochloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,1-Dichloroethane	<0.0059		0.0059	0.00094	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,2-Dichloroethane	<0.0059		0.0059	0.00088	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,1-Dichloroethene	<0.0059		0.0059	0.00096	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,2-Dichloropropane	<0.0059		0.0059	0.00090	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,3-Dichloropropene, Total	<0.0059		0.0059	0.00078	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Ethylbenzene	<0.0059		0.0059	0.0012	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
2-Hexanone	<0.0059		0.0059	0.0017	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Methylene Chloride	<0.0059		0.0059	0.0016	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0016	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Methyl tert-butyl ether	<0.0059		0.0059	0.00098	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Styrene	<0.0059		0.0059	0.00078	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,1,1,2-Tetrachloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Tetrachloroethene	<0.0059		0.0059	0.00091	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Toluene	<0.0059		0.0059	0.00083	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.00082	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0011	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.00089	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.00081	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Trichloroethene	<0.0059		0.0059	0.00098	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Vinyl chloride	<0.0059		0.0059	0.0012	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1
Xylenes, Total	<0.012		0.012	0.00054	mg/Kg	☼	11/06/12 13:30	11/12/12 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		76 - 120	11/06/12 13:30	11/12/12 14:09	1
Dibromofluoromethane	95		73 - 122	11/06/12 13:30	11/12/12 14:09	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/06/12 13:30	11/12/12 14:09	1
Toluene-d8 (Surr)	96		72 - 122	11/06/12 13:30	11/12/12 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-1**

**Lab Sample ID: 500-52071-8**

**Date Collected: 11/06/12 13:30**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Anthracene	<0.041		0.041	0.0098	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Benzo[a]anthracene	<0.041		0.041	0.0087	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Chrysene	<0.041		0.041	0.0094	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-1**

**Lab Sample ID: 500-52071-8**

Date Collected: 11/06/12 13:30

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Benzo[b]fluoranthene	<0.041		0.041	0.0081	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Benzo[k]fluoranthene	<0.041		0.041	0.0099	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Benzo[a]pyrene	<0.041		0.041	0.0076	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	11/15/12 07:23	11/26/12 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		30 - 110	11/15/12 07:23	11/26/12 20:57	1
Phenol-d5	52		31 - 110	11/15/12 07:23	11/26/12 20:57	1
Nitrobenzene-d5	48		30 - 115	11/15/12 07:23	11/26/12 20:57	1
2-Fluorobiphenyl	56		30 - 119	11/15/12 07:23	11/26/12 20:57	1
2,4,6-Tribromophenol	66		35 - 137	11/15/12 07:23	11/26/12 20:57	1
Terphenyl-d14	81		36 - 134	11/15/12 07:23	11/26/12 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Arsenic</b>	<b>8.4</b>		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Barium</b>	<b>97</b>		0.60	0.071	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Beryllium</b>	<b>0.89</b>		0.24	0.018	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Boron</b>	<b>5.3</b>		3.0	0.56	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Cadmium</b>	<b>0.28</b>		0.12	0.030	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Calcium</b>	<b>5100 B</b>		12	2.1	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Chromium</b>	<b>22</b>		0.60	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Cobalt</b>	<b>16</b>		0.30	0.032	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Copper</b>	<b>25</b>		0.60	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Iron</b>	<b>27000</b>		12	5.2	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Lead</b>	<b>15</b>		0.30	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Magnesium</b>	<b>5600 B</b>		6.0	1.2	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Manganese</b>	<b>440</b>		0.60	0.085	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Nickel</b>	<b>31</b>		0.60	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Potassium</b>	<b>1500</b>		30	3.4	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Sodium</b>	<b>110 B</b>		60	11	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Thallium</b>	<b>0.52 J</b>		0.60	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Vanadium</b>	<b>23</b>		0.30	0.046	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1
<b>Zinc</b>	<b>61 B</b>		1.2	0.41	mg/Kg	☼	11/07/12 16:30	11/16/12 07:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23 J B</b>		0.50	0.010	mg/L		11/14/12 10:00	11/15/12 04:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 04:09	1
<b>Boron</b>	<b>0.10 J</b>		0.50	0.050	mg/L		11/14/12 10:00	11/15/12 04:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 04:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-1**

**Lab Sample ID: 500-52071-8**

Date Collected: 11/06/12 13:30

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:09	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:09	1
<b>Iron</b>	<b>0.37</b>		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 04:09	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 04:09	1
<b>Manganese</b>	<b>0.071</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:09	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:09	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 04:09	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:09	1
Zinc	<0.10		0.10	0.020	mg/L		11/14/12 10:00	11/15/12 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		11/14/12 10:00	11/17/12 22:27	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000098</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:43	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.039</b>	<b>B</b>	0.020	0.0076	mg/Kg	☼	11/15/12 16:00	11/16/12 12:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.51</b>		0.200	0.200	SU			11/10/12 11:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-2**

**Lab Sample ID: 500-52071-9**

Date Collected: 11/06/12 13:35

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0049		0.0049	0.0021	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/06/12 13:35	11/12/12 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/06/12 13:35	11/12/12 14:31	1
Dibromofluoromethane	91		73 - 122	11/06/12 13:35	11/12/12 14:31	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/06/12 13:35	11/12/12 14:31	1
Toluene-d8 (Surr)	90		72 - 122	11/06/12 13:35	11/12/12 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-2**

**Lab Sample ID: 500-52071-9**

**Date Collected: 11/06/12 13:35**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**Percent Solids: 85.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-2**

**Lab Sample ID: 500-52071-9**

Date Collected: 11/06/12 13:35

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.054</b>	<b>J</b>	0.19	0.051	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/15/12 07:23	11/26/12 21:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	63		30 - 110				11/15/12 07:23	11/26/12 21:15	1
Phenol-d5	58		31 - 110				11/15/12 07:23	11/26/12 21:15	1
Nitrobenzene-d5	69		30 - 115				11/15/12 07:23	11/26/12 21:15	1
2-Fluorobiphenyl	78		30 - 119				11/15/12 07:23	11/26/12 21:15	1
2,4,6-Tribromophenol	80		35 - 137				11/15/12 07:23	11/26/12 21:15	1
Terphenyl-d14	89		36 - 134				11/15/12 07:23	11/26/12 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Arsenic</b>	<b>3.8</b>		0.58	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Barium</b>	<b>32</b>		0.58	0.070	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Beryllium</b>	<b>0.37</b>		0.23	0.017	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Boron</b>	<b>1.9</b>	<b>J</b>	2.9	0.54	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Calcium</b>	<b>2700</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Chromium</b>	<b>9.1</b>		0.58	0.098	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Cobalt</b>	<b>3.6</b>		0.29	0.031	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Copper</b>	<b>13</b>		0.58	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Iron</b>	<b>11000</b>		12	5.1	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Lead</b>	<b>9.6</b>		0.29	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Magnesium</b>	<b>2400</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Manganese</b>	<b>67</b>		0.58	0.082	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Nickel</b>	<b>11</b>		0.58	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Potassium</b>	<b>480</b>		29	3.3	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Sodium</b>	<b>54</b>	<b>J B</b>	58	11	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Thallium</b>	<b>0.15</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Vanadium</b>	<b>12</b>		0.29	0.044	mg/Kg	☼	11/07/12 16:30	11/16/12 07:14	1
<b>Zinc</b>	<b>26</b>		1.1	0.39	mg/Kg	☼	11/16/12 16:00	11/17/12 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 04:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 04:15	1
<b>Boron</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 04:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 04:15	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-14-B02-2**

**Lab Sample ID: 500-52071-9**

Date Collected: 11/06/12 13:35

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:15	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:15	1
Iron	<0.20		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 04:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 04:15	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:15	1
Nickel	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:15	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 04:15	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:15	1
Zinc	<0.10		0.10	0.020	mg/L		11/14/12 10:00	11/15/12 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		11/14/12 10:00	11/17/12 22:28	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00011</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:45	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.022</b>	<b>B</b>	0.018	0.0068	mg/Kg	☼	11/15/12 16:00	11/16/12 12:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.79</b>		0.200	0.200	SU			11/08/12 15:09	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

## Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b> Andrews Engineering, Inc. 3300 Girger 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> FL 30 <b>Project No.:</b> IDOT2011-053 <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> MN		<b>COC No.:</b> 3 of 4 <b>Lab Job No.:</b> 50052071 <b>Sample Temp:</b> (37)(33)									
<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>Comments</b>											
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BTEX & MTBE	PNAS	Pesticides	PCBS	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization
1	2034A-14-B03-1	11/6/12	12:50	Soil	X						X	X	X	X	
2	2034A-14-B03-2		12:55												
3	2034A-13-B05-1		1:05												
4	2034A-13-B05-2		1:10												
5	2034A-13-B01-1		1:15												
6	2034A-13-B01-2		1:20												
7	2034A-13-B01-DUP		1:25												
8	2034A-14-B02-1		1:30												
9	2034A-14-B02-2		1:35												
	2034A-13-B02-1		1:40												
	2034A-13-B02-2		1:45												
10	2034A-13-B04-1		1:50												
Relinquished by: <i>[Signature]</i>		Date/Time: 11/6/12 15:18		Received by: <i>[Signature]</i>		Date/Time: 11/6/12 16:30		Date/Time: 11/6/12 15:30		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00	
Relinquished by: <i>[Signature]</i>		Date/Time: 11/6/12 16:30		Received by: <i>[Signature]</i>		Date/Time: 11/6/12 16:30		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00	
Relinquished by: <i>[Signature]</i>		Date/Time: 11/6/12 16:30		Received by: <i>[Signature]</i>		Date/Time: 11/6/12 16:30		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00		Date/Time: 11/7/12 07:00	

December 10, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120036

Dear Colleen Grey:

TEKLAB, INC received 7 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120036

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
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Laboratory Results	5
Quality Control Results	12
Receiving Check List	14
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120036

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |





## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120036

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120036

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120036-001

Client Sample ID: 2034A-14-B01-1

Matrix: SOLID

Collection Date: 11/26/2013 13:55

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>0.0784</b>	mg/L	1	12/06/2013 19:02	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120036

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120036-002

Client Sample ID: 2034A-14-B01-1 DUP

Matrix: SOLID

Collection Date: 11/26/2013 14:00

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	0.0016	0.005		<b>0.0896</b>	mg/L	1	12/06/2013 19:06	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120036

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120036-003

Client Sample ID: 2034A-14-B01-2

Matrix: SOLID

Collection Date: 11/26/2013 14:05

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	0.0016	0.005		<b>0.0277</b>	mg/L	1	12/06/2013 19:09	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120036

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120036-004

Client Sample ID: 2034A-14-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 12:30

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>0.0545</b>	mg/L	1	12/06/2013 19:13	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120036

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120036-005

Client Sample ID: 2034A-14-B02-2

Matrix: SOLID

Collection Date: 11/26/2013 12:35

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>0.0267</b>	mg/L	1	12/06/2013 19:17	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120036

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120036-006

Client Sample ID: 2034A-14-B03-1

Matrix: SOLID

Collection Date: 11/26/2013 14:15

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>0.0288</b>	mg/L	1	12/06/2013 19:20	94358



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120036

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120036-007

Client Sample ID: 2034A-14-B03-2

Matrix: SOLID

Collection Date: 11/26/2013 14:20

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		<b>0.123</b>	mg/L	1	12/06/2013 19:39	94360





# 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: <u>Test America - Chicago - TekLab</u> Address: <u>2417 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-594-5200</u> Contact: <u>Diak Wright</u> email: <u>diakwright@testamerica.com</u>	Project Name: <u>IL 30 Cook Co</u> Project No.: <u>ID07 2011-053</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>13120034</u> Sample Temp: <u>5.0</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>ANALYSES</b> <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> <th>VOCS</th> <th>SVOCs</th> <th>BTEX &amp; MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>13120034-001</td> <td>2034A-14-B01-1</td> <td>11/26/13</td> <td>1355</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>X SPLP Mn/** TCLP Mn</td> <td></td> </tr> <tr> <td>002</td> <td>2034A-14-B01-1 DUP</td> <td>11/26/13</td> <td>1400</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>X</td> <td></td> </tr> <tr> <td>003</td> <td>2034A-14-B01-2</td> <td>11/26/13</td> <td>1405</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>X</td> <td></td> </tr> <tr> <td>004</td> <td>2034A-14-B02-1</td> <td>11/26/13</td> <td>1230</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>X</td> <td></td> </tr> <tr> <td>005</td> <td>2034A-14-B02-2</td> <td>11/26/13</td> <td>1235</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>X</td> <td></td> </tr> <tr> <td>006</td> <td>2034A-14-B03-1</td> <td>11/26/13</td> <td>1415</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>X</td> <td></td> </tr> <tr> <td>007</td> <td>2034A-14-B03-2</td> <td>11/26/13</td> <td>1420</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>X</td> <td></td> </tr> <tr> <td colspan="16" style="text-align: center;">           TekLab, Inc.            Courier Pick Up         </td> </tr> </tbody> </table>		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	13120034-001	2034A-14-B01-1	11/26/13	1355	S											X SPLP Mn/** TCLP Mn		002	2034A-14-B01-1 DUP	11/26/13	1400	S											X		003	2034A-14-B01-2	11/26/13	1405	S											X		004	2034A-14-B02-1	11/26/13	1230	S											X		005	2034A-14-B02-2	11/26/13	1235	S											X		006	2034A-14-B03-1	11/26/13	1415	S											X		007	2034A-14-B03-2	11/26/13	1420	S											X		TekLab, Inc. Courier Pick Up															
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Date/Time: <u>11/27/13 4:00pm</u> Date/Time: <u>12/2/13 12:00</u> Date/Time:		Date/Time: <u>12/13 9:25</u> Date/Time: <u>12/13 12:00</u> 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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21800 Block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.49783 Longitude: -87.52901  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.49783 Longitude: -87.52901

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 2034/A-16-B02 AND -B05 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-16. SEE FIGURE 3 AND TABLE 5m 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: 500-52071. TEKLAB WORK ORDER NO.: 13120037.

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

I, Stgeven 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

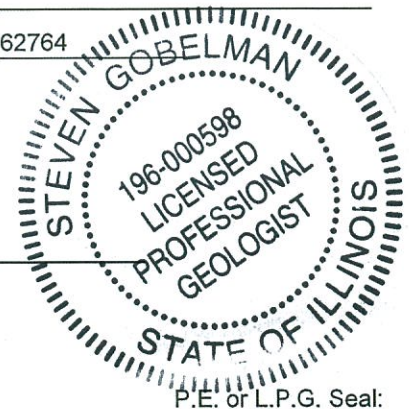
Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 \_\_\_\_\_  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

3/17/14  
 \_\_\_\_\_  
 Date:



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

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

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,1,2-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 2034A-16

EJ&E/CN Railroad

Sample ID	2034A-16-B02	2034A-16-B05								
Sample Depth (ft)	0-5	0-5								
Sample Date	11/6/2012	11/6/2012								
PID	0	0								
Sample pH	8.05	7.43								
Matrix	Soil	Soil								
<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										
<b>Semivolatile Organic Compounds (mg/kg)</b>										
Benzo (a) pyrene	0.39	1,2	J 0.028		0.09	0.09	0.98	1.3	2.1	NA
Dibenzo (a,h) anthracene	0.096	1,2	ND		0.09	0.09	0.15	0.2	0.42	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: 500-52071-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
11/28/2012 4:00:44 PM  
Eric Lang  
Project Manager II  
[eric.lang@testamericainc.com](mailto:eric.lang@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
- 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 Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B05**

**Lab Sample ID: 500-52071-12**

Date Collected: 11/06/12 14:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0065		0.0054	0.0023	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Carbon tetrachloride	<0.0054		0.0054	0.00099	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00077	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,1-Dichloroethene	<0.0054		0.0054	0.00088	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00075	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	11/06/12 14:25	11/13/12 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/06/12 14:25	11/13/12 11:22	1
Dibromofluoromethane	96		73 - 122	11/06/12 14:25	11/13/12 11:22	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/06/12 14:25	11/13/12 11:22	1
Toluene-d8 (Surr)	99		72 - 122	11/06/12 14:25	11/13/12 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B05**

**Lab Sample ID: 500-52071-12**

Date Collected: 11/06/12 14:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Naphthalene</b>	<b>0.038</b>	<b>J</b>	0.041	0.0080	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>2-Methylnaphthalene</b>	<b>0.12</b>	<b>J</b>	0.21	0.054	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Phenanthrene</b>	<b>0.42</b>		0.041	0.017	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Anthracene</b>	<b>0.025</b>	<b>J</b>	0.041	0.0098	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Fluoranthene</b>	<b>0.12</b>		0.041	0.017	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Pyrene</b>	<b>0.083</b>		0.041	0.015	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Benzo[a]anthracene</b>	<b>0.058</b>		0.041	0.0087	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Chrysene</b>	<b>0.074</b>		0.041	0.0094	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B05**

**Lab Sample ID: 500-52071-12**

Date Collected: 11/06/12 14:25

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Benzo[b]fluoranthene</b>	<b>0.029</b>	<b>J</b>	0.041	0.0081	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Benzo[k]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.041	0.0099	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Benzo[a]pyrene</b>	<b>0.028</b>	<b>J</b>	0.041	0.0076	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
Dibenz(a,h)anthracene	<0.041		0.041	0.012	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Benzo[g,h,i]perylene</b>	<b>0.022</b>	<b>J</b>	0.041	0.014	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	11/15/12 07:23	11/28/12 14:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	69		30 - 110				11/15/12 07:23	11/28/12 14:24	1
Phenol-d5	51		31 - 110				11/15/12 07:23	11/28/12 14:24	1
Nitrobenzene-d5	51		30 - 115				11/15/12 07:23	11/28/12 14:24	1
2-Fluorobiphenyl	62		30 - 119				11/15/12 07:23	11/28/12 14:24	1
2,4,6-Tribromophenol	73		35 - 137				11/15/12 07:23	11/28/12 14:24	1
Terphenyl-d14	71		36 - 134				11/15/12 07:23	11/28/12 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.99</b>	<b>J</b>	1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Arsenic</b>	<b>7.8</b>		0.62	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Barium</b>	<b>26</b>		0.62	0.073	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Beryllium</b>	<b>0.57</b>		0.25	0.018	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Boron</b>	<b>8.8</b>		3.1	0.57	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Cadmium</b>	<b>0.16</b>		0.12	0.030	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Calcium</b>	<b>7200</b>	<b>B</b>	12	2.2	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Chromium</b>	<b>4.9</b>		0.62	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Cobalt</b>	<b>3.3</b>		0.31	0.032	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Copper</b>	<b>22</b>		0.62	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Iron</b>	<b>11000</b>		12	5.3	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Lead</b>	<b>47</b>		0.31	0.11	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Magnesium</b>	<b>3300</b>	<b>B</b>	6.2	1.2	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Manganese</b>	<b>190</b>		0.62	0.087	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Nickel</b>	<b>13</b>		0.62	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Potassium</b>	<b>330</b>		31	3.5	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
Selenium	<0.62		0.62	0.18	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Sodium</b>	<b>88</b>	<b>B</b>	62	11	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Thallium</b>	<b>0.20</b>	<b>J</b>	0.62	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Vanadium</b>	<b>14</b>		0.31	0.047	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1
<b>Zinc</b>	<b>52</b>	<b>B</b>	1.2	0.42	mg/Kg	☼	11/07/12 16:30	11/16/12 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.31</b>	<b>J B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 04:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 04:34	1
<b>Boron</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 04:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 04:34	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B05**

**Lab Sample ID: 500-52071-12**

Date Collected: 11/06/12 14:25

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:34	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:34	1
Copper	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:34	1
<b>Iron</b>	<b>0.46</b>		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 04:34	1
<b>Lead</b>	<b>0.019</b>	<b>B</b>	0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 18:37	1
<b>Manganese</b>	<b>0.62</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:34	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:34	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 04:34	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:34	1
Zinc	<0.10		0.10	0.020	mg/L		11/14/12 10:00	11/15/12 04:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.0042</b>	<b>J</b>	0.0060	0.0030	mg/L		11/14/12 10:00	11/17/12 22:33	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000086</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:50	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.081</b>	<b>B</b>	0.019	0.0071	mg/Kg	☼	11/15/12 16:00	11/16/12 12:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.43</b>		0.200	0.200	SU			11/08/12 15:19	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B02**

**Lab Sample ID: 500-52071-13**

Date Collected: 11/06/12 14:50

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.40		0.40	0.10	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Benzene	<0.020		0.020	0.0060	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Bromodichloromethane	<0.16		0.16	0.027	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Bromoform	<0.16		0.16	0.036	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Bromomethane	<0.16		0.16	0.055	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
2-Butanone (MEK)	<0.40		0.40	0.12	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Carbon disulfide	<0.40		0.40	0.034	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Carbon tetrachloride	<0.081		0.081	0.021	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Chlorobenzene	<0.081		0.081	0.012	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Chloroethane	<0.16		0.16	0.035	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Chloroform	<0.081		0.081	0.017	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Chloromethane	<0.16		0.16	0.037	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
cis-1,2-Dichloroethene	<0.081		0.081	0.0099	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
cis-1,3-Dichloropropene	<0.081		0.081	0.014	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Dibromochloromethane	<0.16		0.16	0.028	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,1-Dichloroethane	<0.081		0.081	0.015	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,2-Dichloroethane	<0.081		0.081	0.023	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,1-Dichloroethene	<0.081		0.081	0.025	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,2-Dichloropropane	<0.081		0.081	0.016	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,3-Dichloropropene, Total	<0.081		0.081	0.014	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Ethylbenzene	<0.020		0.020	0.010	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
2-Hexanone	<0.40		0.40	0.045	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Methylene Chloride	<0.40		0.40	0.055	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
4-Methyl-2-pentanone (MIBK)	<0.40		0.40	0.027	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Methyl tert-butyl ether	<0.16		0.16	0.035	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Styrene	<0.081		0.081	0.0080	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,1,1,2-Tetrachloroethane	<0.081		0.081	0.019	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Tetrachloroethene	<0.081		0.081	0.013	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Toluene	<0.020		0.020	0.0093	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
trans-1,2-Dichloroethene	<0.081		0.081	0.020	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
trans-1,3-Dichloropropene	<0.081		0.081	0.017	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,1,1-Trichloroethane	<0.081		0.081	0.016	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
1,1,2-Trichloroethane	<0.081		0.081	0.022	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Trichloroethene	<0.040		0.040	0.015	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Vinyl chloride	<0.020		0.020	0.0084	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50
Xylenes, Total	<0.040		0.040	0.0055	mg/Kg	☼	11/06/12 14:50	11/14/12 22:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		79 - 120	11/06/12 14:50	11/14/12 22:46	50
Dibromofluoromethane	99		74 - 123	11/06/12 14:50	11/14/12 22:46	50
1,2-Dichloroethane-d4 (Surr)	92		75 - 131	11/06/12 14:50	11/14/12 22:46	50
Toluene-d8 (Surr)	101		80 - 120	11/06/12 14:50	11/14/12 22:46	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B02**

**Lab Sample ID: 500-52071-13**

**Date Collected: 11/06/12 14:50**

**Matrix: Solid**

**Date Received: 11/06/12 15:30**

**Percent Solids: 77.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Naphthalene</b>	<b>0.052</b>		0.041	0.0079	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
4-Chloroaniline	<0.83		0.83	0.13	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Hexachlorocyclopentadiene	<0.83		0.83	0.19	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2-Nitroaniline	<0.21		0.21	0.074	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,4-Dinitrophenol	<0.83		0.83	0.21	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Acenaphthylene</b>	<b>0.031 J</b>		0.041	0.0095	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Acenaphthene</b>	<b>0.029 J</b>		0.041	0.012	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Dibenzofuran</b>	<b>0.054 J</b>		0.21	0.050	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
4-Nitrophenol	<0.83		0.83	0.22	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Fluorene</b>	<b>0.045</b>		0.041	0.0094	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Hexachlorobenzene	<0.083		0.083	0.0081	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Pentachlorophenol	<0.83		0.83	0.21	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Phenanthrene</b>	<b>0.47</b>		0.041	0.017	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Anthracene</b>	<b>0.13</b>		0.041	0.0097	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Di-n-butyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Fluoranthene</b>	<b>1.0</b>		0.041	0.017	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Pyrene</b>	<b>0.82</b>		0.041	0.015	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Butyl benzyl phthalate</b>	<b>0.053 J</b>		0.21	0.052	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Benzo[a]anthracene</b>	<b>0.44</b>		0.041	0.0086	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Chrysene</b>	<b>0.51</b>		0.041	0.0093	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B02**

**Lab Sample ID: 500-52071-13**

Date Collected: 11/06/12 14:50

Matrix: Solid

Date Received: 11/06/12 15:30

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.096</b>	<b>J</b>	0.21	0.055	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Benzo[b]fluoranthene</b>	<b>0.55</b>		0.041	0.0080	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Benzo[k]fluoranthene</b>	<b>0.23</b>		0.041	0.0098	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Benzo[a]pyrene</b>	<b>0.39</b>		0.041	0.0075	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.22</b>		0.041	0.014	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Dibenz(a,h)anthracene</b>	<b>0.096</b>		0.041	0.012	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
<b>Benzo[g,h,i]perylene</b>	<b>0.29</b>		0.041	0.014	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
3 & 4 Methylphenol	<0.21		0.21	0.078	mg/Kg	☼	11/15/12 07:23	11/28/12 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110				11/15/12 07:23	11/28/12 14:44	1
Phenol-d5	59		31 - 110				11/15/12 07:23	11/28/12 14:44	1
Nitrobenzene-d5	56		30 - 115				11/15/12 07:23	11/28/12 14:44	1
2-Fluorobiphenyl	56		30 - 119				11/15/12 07:23	11/28/12 14:44	1
2,4,6-Tribromophenol	76		35 - 137				11/15/12 07:23	11/28/12 14:44	1
Terphenyl-d14	66		36 - 134				11/15/12 07:23	11/28/12 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Arsenic</b>	<b>7.2</b>		0.59	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Barium</b>	<b>410</b>		0.59	0.071	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Beryllium</b>	<b>1.7</b>		0.24	0.017	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Boron</b>	<b>47</b>		3.0	0.55	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Cadmium</b>	<b>1.0</b>		0.12	0.029	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	120	21	mg/Kg	☼	11/07/12 16:30	11/16/12 14:34	10
<b>Chromium</b>	<b>17</b>		0.59	0.099	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Cobalt</b>	<b>4.4</b>		0.30	0.031	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Copper</b>	<b>28</b>		0.59	0.16	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Iron</b>	<b>11000</b>		12	5.1	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Lead</b>	<b>59</b>		0.30	0.10	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Magnesium</b>	<b>44000</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Manganese</b>	<b>240</b>		0.59	0.084	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Nickel</b>	<b>14</b>		0.59	0.13	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Potassium</b>	<b>1100</b>		30	3.4	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Silver</b>	<b>0.050</b>	<b>J</b>	0.30	0.036	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Sodium</b>	<b>1500</b>	<b>B</b>	59	11	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Thallium</b>	<b>0.87</b>		0.59	0.15	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Vanadium</b>	<b>43</b>		0.30	0.045	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1
<b>Zinc</b>	<b>85</b>	<b>B</b>	1.2	0.41	mg/Kg	☼	11/07/12 16:30	11/16/12 07:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>1.5</b>	<b>B</b>	0.50	0.010	mg/L		11/14/12 10:00	11/15/12 04:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Boron</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Cadmium</b>	<b>0.0094</b>		0.0050	0.0020	mg/L		11/14/12 10:00	11/15/12 04:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

**Client Sample ID: 2034A-16-B02**

**Lab Sample ID: 500-52071-13**

Date Collected: 11/06/12 14:50

Matrix: Solid

Date Received: 11/06/12 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Cobalt</b>	<b>0.0066</b>	<b>J</b>	0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:41	1
Iron	<0.20		0.20	0.20	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Lead</b>	<b>0.0068</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Nickel</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		11/14/12 10:00	11/15/12 04:41	1
Selenium	<0.050		0.050	0.010	mg/L		11/14/12 10:00	11/15/12 04:41	1
Silver	<0.025		0.025	0.0050	mg/L		11/14/12 10:00	11/15/12 04:41	1
<b>Zinc</b>	<b>0.23</b>		0.10	0.020	mg/L		11/14/12 10:00	11/15/12 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.0041</b>	<b>J</b>	0.0060	0.0030	mg/L		11/14/12 10:00	11/17/12 22:38	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/14/12 10:00	11/17/12 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000096</b>	<b>J B</b>	0.00020	0.000020	mg/L		11/14/12 16:00	11/15/12 12:52	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.023</b>	<b>B</b>	0.020	0.0075	mg/Kg	☼	11/15/12 16:00	11/16/12 12:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.05</b>		0.200	0.200	SU			11/08/12 15:23	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

## Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52071-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>IL 30</u>	<b>COC No.:</b> <u>4</u> of <u>4</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: <b>Dick Wright</b> email: richard.wright@testamericainc.com	Project No.: <u>IDOT2011- 53</u>	Lab Job No.: <u>500-52071</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:
		Sampler: <u>MON</u>	

**Special Instructions:**  
See Table 7 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 / Metals	TCLP/SPLP/ Metals	pH	% Solids	Waste Characterization	Comments
11	2034A-13-B01-2	11/6/12	1:55	SOL	X	X					X	X	X	X		4.5-9'
12	2034A-16-B05		2:25		X	X					X	X	X	X		0-5'
13	2034A-16-B02		2:50		X	X					X	X	X	X		0-5'
14	2034A-13-B03-1		2:55		X	X					X	X	X	X		0-4.5'
15	2034A-13-B03-2		3:00		X	X					X	X	X	X		4.5-9'
	<del>2034A-13-B01-1</del>		<del>3:10</del>													0-4.5'
	<del>2034A-13-B01-2</del>		<del>3:15</del>													4.5-9'
	<del>2034A-13-B01-3</del>		<del>3:20</del>													0-4.5'

Relinquished by:	Received by:	Date/Time: 11/6/12 15:18	Date/Time: 11/6/12 15:18
Relinquished by:	Received by:	Date/Time: 11/6/12 16:30	Date/Time: 11/7/12 8:00
Relinquished by:	Received by:	Date/Time:	Date/Time:

December 10, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120037

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120037

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	7
Receiving Check List	8
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120037

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120037

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120037

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120037-001

Client Sample ID: 2034A-16-B02

Matrix: SOLID

Collection Date: 11/26/2013 15:35

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>0.0195</b>	mg/L	1	12/06/2013 19:50	94360





## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120037

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120037-002

Client Sample ID: 2034A-16-B05

Matrix: SOLID

Collection Date: 11/26/2013 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		<b>0.0693</b>	mg/L	1	12/06/2013 19:53	94360



# 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: <del>TestAmerica Chicago</del> <b>Teklab</b> Address: <del>2447 Bond Street</del> University Park, IL 60494 Phone: <del>708-684-5200</del> Contact: <del>Dick Wright</del> email: <del>richard.wright@testamericainc.com</del>	Project Name: <u>IL 30 Cook Co</u> Project No.: <u>IDOT 2011-053</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>CBG</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13120037</u> Sample Temp: <u>5.0°C 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	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization	Comments
13120037-001	2034A-16-B02	11/26/13	1535	S											X SPLP Mn/XTCLP	
002	2034A-16-B05	11/26/13	1220	S											X	
Teklab, Inc. Courier Pick Up																
Relinquished by:  Date/Time: <u>11/27/13 4:00pm</u>																
Relinquished by:  Date/Time: <u>12/13 12:00</u>																
Relinquished by:  Date/Time: <u>12/13 12:25</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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21900 Block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.49733 Longitude: -87.52929

(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)  
 Latitude: 41.49733 Longitude: -87.52929

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 2034/A-17-B02 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-17. SEE FIGURE 3 AND TABLE 5n 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: 500-52120. TEKLAB WORK ORDER NO.: 13120038.

**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:

5/17/14  
 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
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 2034A-17**

**Vacant Lot**

Sample ID	2034A-17-B02-1	2034A-17-B02-2							
Sample Depth (ft)	0-4	4-8							
Sample Date	11/7/2012	11/7/2012							
PID	0	0							
Sample pH	8.31	8.92							
Matrix	Soil	Soil	<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	<sup>6</sup> Class I Groundwater
<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: 500-52120-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
11/26/2012 5:00:35 PM

Richard Wright  
Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
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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 Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-1**

**Lab Sample ID: 500-52120-9**

**Date Collected: 11/07/12 09:10**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Bromodichloromethane	<0.0054		0.0054	0.00092	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Carbon disulfide	<0.0054		0.0054	0.00080	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Chlorobenzene	<0.0054		0.0054	0.00054	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Dibromochloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,2-Dichloropropane	<0.0054		0.0054	0.00081	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00070	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
2-Hexanone	<0.0054		0.0054	0.0015	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Methylene Chloride	<0.0054		0.0054	0.0014	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Styrene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00096	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	11/07/12 09:10	11/13/12 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		76 - 120	11/07/12 09:10	11/13/12 16:43	1
Dibromofluoromethane	101		73 - 122	11/07/12 09:10	11/13/12 16:43	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/07/12 09:10	11/13/12 16:43	1
Toluene-d8 (Surr)	95		72 - 122	11/07/12 09:10	11/13/12 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.99		0.99	0.31	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Bis(2-chloroethyl)ether	<0.99		0.99	0.29	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
1,3-Dichlorobenzene	<0.99		0.99	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
1,4-Dichlorobenzene	<0.99		0.99	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
1,2-Dichlorobenzene	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-1**

**Lab Sample ID: 500-52120-9**

**Date Collected: 11/07/12 09:10**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 82.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,2'-oxybis[1-chloropropane]	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
N-Nitrosodi-n-propylamine	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Hexachloroethane	<0.99		0.99	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2-Chlorophenol	<0.99		0.99	0.28	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Nitrobenzene	<0.20		0.20	0.061	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Bis(2-chloroethoxy)methane	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
1,2,4-Trichlorobenzene	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Isophorone	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,4-Dimethylphenol	<2.0		2.0	0.62	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Hexachlorobutadiene	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Naphthalene	<0.20		0.20	0.038	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,4-Dichlorophenol	<2.0		2.0	0.60	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
4-Chloroaniline	<4.0		4.0	0.60	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,4,6-Trichlorophenol	<2.0		2.0	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,4,5-Trichlorophenol	<2.0		2.0	0.56	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Hexachlorocyclopentadiene	<4.0		4.0	0.91	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2-Methylnaphthalene	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2-Nitroaniline	<0.99		0.99	0.35	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2-Chloronaphthalene	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
4-Chloro-3-methylphenol	<2.0		2.0	0.94	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,6-Dinitrotoluene	<0.99		0.99	0.23	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2-Nitrophenol	<2.0		2.0	0.31	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
3-Nitroaniline	<2.0		2.0	0.38	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Dimethyl phthalate	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,4-Dinitrophenol	<4.0		4.0	1.0	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Acenaphthylene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
2,4-Dinitrotoluene	<0.99		0.99	0.30	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Acenaphthene	<0.20		0.20	0.059	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Dibenzofuran	<0.99		0.99	0.24	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
4-Nitrophenol	<4.0		4.0	1.1	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Fluorene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
4-Nitroaniline	<2.0		2.0	0.40	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
4-Bromophenyl phenyl ether	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Hexachlorobenzene	<0.40		0.40	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Diethyl phthalate	<0.99		0.99	0.33	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
4-Chlorophenyl phenyl ether	<0.99		0.99	0.31	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Pentachlorophenol	<4.0		4.0	1.0	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
N-Nitrosodiphenylamine	<0.99		0.99	0.27	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
4,6-Dinitro-2-methylphenol	<2.0		2.0	0.48	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Phenanthrene</b>	<b>0.088</b>	<b>J</b>	0.20	0.082	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Anthracene	<0.20		0.20	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Carbazole	<0.99		0.99	0.28	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Di-n-butyl phthalate	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Fluoranthene</b>	<b>0.16</b>	<b>J</b>	0.20	0.081	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Pyrene</b>	<b>0.13</b>	<b>J</b>	0.20	0.071	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Butyl benzyl phthalate	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Benzo[a]anthracene</b>	<b>0.082</b>	<b>J</b>	0.20	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Chrysene</b>	<b>0.094</b>	<b>J</b>	0.20	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-1**

**Lab Sample ID: 500-52120-9**

Date Collected: 11/07/12 09:10

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.99		0.99	0.16	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Bis(2-ethylhexyl) phthalate	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Di-n-octyl phthalate	<0.99		0.99	0.40	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Benzo[b]fluoranthene</b>	<b>0.11</b>	<b>J</b>	0.20	0.038	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Benzo[k]fluoranthene</b>	<b>0.10</b>	<b>J</b>	0.20	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Benzo[a]pyrene</b>	<b>0.082</b>	<b>J</b>	0.20	0.036	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.075</b>	<b>J</b>	0.20	0.066	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Dibenz(a,h)anthracene	<0.20		0.20	0.055	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
<b>Benzo[g,h,i]perylene</b>	<b>0.084</b>	<b>J</b>	0.20	0.066	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
3 & 4 Methylphenol	<0.99		0.99	0.37	mg/Kg	☼	11/19/12 06:57	11/23/12 18:23	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		30 - 110				11/19/12 06:57	11/23/12 18:23	5
Phenol-d5	90		31 - 110				11/19/12 06:57	11/23/12 18:23	5
Nitrobenzene-d5	85		30 - 115				11/19/12 06:57	11/23/12 18:23	5
2-Fluorobiphenyl	98		30 - 119				11/19/12 06:57	11/23/12 18:23	5
2,4,6-Tribromophenol	163	X	35 - 137				11/19/12 06:57	11/23/12 18:23	5
Terphenyl-d14	82		36 - 134				11/19/12 06:57	11/23/12 18:23	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Arsenic</b>	<b>4.6</b>		0.58	0.13	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Barium</b>	<b>100</b>	<b>B</b>	0.58	0.069	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Beryllium</b>	<b>0.92</b>		0.23	0.017	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Boron</b>	<b>5.2</b>		2.9	0.54	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Cadmium</b>	<b>0.32</b>		0.12	0.029	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Calcium</b>	<b>19000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Chromium</b>	<b>20</b>		0.58	0.097	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Cobalt</b>	<b>5.3</b>		0.29	0.031	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Copper</b>	<b>20</b>		0.58	0.16	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Iron</b>	<b>20000</b>		12	5.0	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Lead</b>	<b>28</b>	<b>B</b>	0.29	0.10	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Magnesium</b>	<b>13000</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Manganese</b>	<b>210</b>	<b>B</b>	0.58	0.082	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Nickel</b>	<b>22</b>		0.58	0.13	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Potassium</b>	<b>1600</b>		29	3.3	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Selenium</b>	<b>0.24</b>	<b>J</b>	0.58	0.17	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Sodium</b>	<b>980</b>		58	11	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Thallium</b>	<b>0.19</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Vanadium</b>	<b>22</b>		0.29	0.044	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1
<b>Zinc</b>	<b>56</b>	<b>B</b>	1.2	0.40	mg/Kg	☼	11/08/12 16:30	11/16/12 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 19:43	1
<b>Boron</b>	<b>0.076</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 19:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 19:43	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-1**

**Lab Sample ID: 500-52120-9**

Date Collected: 11/07/12 09:10

Matrix: Solid

Date Received: 11/07/12 15:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 19:43	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:43	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 19:43	1
<b>Lead</b>	<b>0.015</b>		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 19:43	1
<b>Manganese</b>	<b>0.60</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:43	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:43	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 19:43	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 19:43	1
<b>Zinc</b>	<b>0.058</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/16/12 19:43	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		11/15/12 15:00	11/17/12 22:51	1
Thallium	<0.0020	<b>^</b>	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/16/12 13:30	11/19/12 09:24	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.038</b>		0.019	0.0074	mg/Kg	☼	11/16/12 15:00	11/19/12 11:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.31</b>		0.200	0.200	SU			11/12/12 10:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-2**

**Lab Sample ID: 500-52120-10**

Date Collected: 11/07/12 09:15

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.22		0.22	0.058	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Benzene	<0.011		0.011	0.0033	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Bromodichloromethane	<0.089		0.089	0.015	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Bromoform	<0.089		0.089	0.020	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Bromomethane	<0.089		0.089	0.030	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
2-Butanone (MEK)	<0.22		0.22	0.066	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Carbon disulfide	<0.22		0.22	0.019	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Carbon tetrachloride	<0.045		0.045	0.011	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Chlorobenzene	<0.045		0.045	0.0064	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Chloroethane	<0.089		0.089	0.019	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Chloroform	<0.045		0.045	0.0092	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Chloromethane	<0.089		0.089	0.021	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
cis-1,2-Dichloroethene	<0.045		0.045	0.0055	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
cis-1,3-Dichloropropene	<0.045		0.045	0.0079	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Dibromochloromethane	<0.089		0.089	0.015	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,1-Dichloroethane	<0.045		0.045	0.0083	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,2-Dichloroethane	<0.045		0.045	0.013	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,1-Dichloroethene	<0.045		0.045	0.014	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,2-Dichloropropane	<0.045		0.045	0.0088	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,3-Dichloropropene, Total	<0.045		0.045	0.0079	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Ethylbenzene	<0.011		0.011	0.0056	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
2-Hexanone	<0.22		0.22	0.025	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Methylene Chloride	<0.22		0.22	0.031	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
4-Methyl-2-pentanone (MIBK)	<0.22		0.22	0.015	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Methyl tert-butyl ether	<0.089		0.089	0.019	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Styrene	<0.045		0.045	0.0044	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,1,1,2-Tetrachloroethane	<0.045		0.045	0.010	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Tetrachloroethene	<0.045		0.045	0.0075	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Toluene	<0.011		0.011	0.0051	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
trans-1,2-Dichloroethene	<0.045		0.045	0.011	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
trans-1,3-Dichloropropene	<0.045		0.045	0.0093	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,1,1-Trichloroethane	<0.045		0.045	0.0090	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
1,1,2-Trichloroethane	<0.045		0.045	0.012	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Trichloroethene	<0.022		0.022	0.0083	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Vinyl chloride	<0.011		0.011	0.0046	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50
Xylenes, Total	<0.022		0.022	0.0031	mg/Kg	☼	11/07/12 09:15	11/16/12 05:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		79 - 120	11/07/12 09:15	11/16/12 05:05	50
Dibromofluoromethane	91		74 - 123	11/07/12 09:15	11/16/12 05:05	50
1,2-Dichloroethane-d4 (Surr)	97		75 - 131	11/07/12 09:15	11/16/12 05:05	50
Toluene-d8 (Surr)	92		80 - 120	11/07/12 09:15	11/16/12 05:05	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-2**

**Lab Sample ID: 500-52120-10**

Date Collected: 11/07/12 09:15

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
<b>Benzo[a]anthracene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0079	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-2**

**Lab Sample ID: 500-52120-10**

Date Collected: 11/07/12 09:15

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/19/12 06:57	11/23/12 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110	11/19/12 06:57	11/23/12 18:42	1
Phenol-d5	73		31 - 110	11/19/12 06:57	11/23/12 18:42	1
Nitrobenzene-d5	66		30 - 115	11/19/12 06:57	11/23/12 18:42	1
2-Fluorobiphenyl	75		30 - 119	11/19/12 06:57	11/23/12 18:42	1
2,4,6-Tribromophenol	122		35 - 137	11/19/12 06:57	11/23/12 18:42	1
Terphenyl-d14	67		36 - 134	11/19/12 06:57	11/23/12 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Arsenic</b>	<b>5.2</b>		0.56	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Barium</b>	<b>64</b>	<b>B</b>	0.56	0.066	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Beryllium</b>	<b>0.51</b>		0.22	0.016	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Boron</b>	<b>2.2</b>	<b>J</b>	2.8	0.52	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Cadmium</b>	<b>0.045</b>	<b>J</b>	0.11	0.028	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Calcium</b>	<b>3600</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Chromium</b>	<b>13</b>		0.56	0.093	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Cobalt</b>	<b>4.6</b>		0.28	0.029	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Copper</b>	<b>13</b>		0.56	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Iron</b>	<b>14000</b>		11	4.8	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Lead</b>	<b>12</b>	<b>B</b>	0.28	0.096	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Magnesium</b>	<b>3800</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Manganese</b>	<b>71</b>	<b>B</b>	0.56	0.079	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Nickel</b>	<b>16</b>		0.56	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Potassium</b>	<b>670</b>		28	3.2	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Sodium</b>	<b>340</b>		56	10	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Vanadium</b>	<b>16</b>		0.28	0.042	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1
<b>Zinc</b>	<b>36</b>	<b>B</b>	1.1	0.38	mg/Kg	☼	11/08/12 16:30	11/16/12 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 19:49	1
Boron	<0.50		0.50	0.050	mg/L		11/15/12 15:00	11/16/12 19:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 19:49	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-17-B02-2**

**Lab Sample ID: 500-52120-10**

Date Collected: 11/07/12 09:15

Matrix: Solid

Date Received: 11/07/12 15:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:49	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 19:49	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:49	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 19:49	1
<b>Lead</b>	<b>0.0069</b>	<b>J</b>	0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 19:49	1
<b>Manganese</b>	<b>0.098</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:49	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 19:49	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 19:49	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 19:49	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 19:49	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		11/15/12 15:00	11/17/12 22:52	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 22:52	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		11/16/12 13:30	11/19/12 09:26	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.013</b>	<b>J</b>	0.018	0.0068	mg/Kg	☼	11/16/12 15:00	11/19/12 11:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.92</b>		0.200	0.200	SU			11/12/12 10:14	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
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	MS or MSD exceeds the control limits
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>IL 30</u>	<b>COC No.:</b> <u>1</u> of <u>4</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200	Project No.: IDOT2011-053	Lab Job No.: <u>500-52120</u>
Contact: Colleen Grey email: cgrey@andrews-eng.com	Contact: Dick Wright email: richard.wright@testamericainc.com	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>(32)(28)</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> <u>M3N</u>	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES										Comments	
					VOCs	SVOCs	BTEX & MTBE	PNAs	Pesticides	PCBS	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids		Waste Characterization
1	2034A-13-B01-1	11/6/12	3:10	Soil	X	X						X	X			0-4.5'
2	2034A-13-B01-2	↓	3:15	↓												4.5'-9'
3	2034A-13-B01-1 DUP	↓	3:26	↓												0-4.5'
4	2034A-13-B02-1	11/7/12	7:30													0-4.5'
5	2034A-13-B02-2	↓	7:35	↓												4.5'-9'
6	2034A-12-B01-1	↓	7:40	↓												0-4.5'
7	2034A-12-B01-2	↓	7:45	↓												4.5'-9'
8	2034A-12-B01-1 DUP	↓	7:50	↓												0-4.5'
9	2034A-17-B02-1	↓	9:10	↓												0-4'
10	2034A-17-B02-2	↓	9:15	↓												4-8'
11	2034A-20-B01-1	↓	9:30	↓												0-4'
12	2034A-20-B01-2	↓	9:35	↓												4-8'
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time
					11/7/12 15:18											11/7/12 15:18
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time
					11/7/12 1550											11/8/12 6700
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>										Date/Time

December 10, 2013

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



**RE:** IDOT2011-053

**WorkOrder:** 13120038

Dear Colleen Grey:

TEKLAB, INC received 2 samples on 12/2/2013 12:20:00 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)



## Report Contents

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

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120038

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	7
Receiving Check List	8
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120038

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |



## Case Narrative

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

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120038

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville





## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120038

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120038-001

Client Sample ID: 2034A-17-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 10:20

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		<b>0.0957</b>	mg/L	1	12/06/2013 19:57	94360



## Laboratory Results

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

Client: Andrews Engineering, Inc.

Work Order: 13120038

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120038-002

Client Sample ID: 2034A-17-B02-2

Matrix: SOLID

Collection Date: 11/26/2013 10:25

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	0.0016	0.005		<b>0.105</b>	mg/L	1	12/06/2013 20:01	94360





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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

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

21600 Block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

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

Latitude: 41.49689 Longitude: -87.52869  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)  
 Latitude: 41.49689 Longitude: -87.52869

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 2034/A-18-B01, -B03 THOUGH -B05 AND -B07 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-18. SEE FIGURE 3 AND TABLE 5o 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: 500-52177 AND 500-52267. TEKLAB WORK ORDER NO.: 13120039.

**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))*

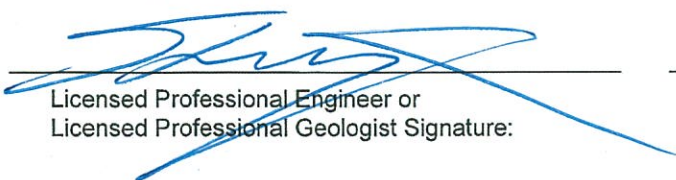
Company Name: IDOT Bureau of Design and Environment

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:

3/17/14  
 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
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 2034A-18  
Vacant/Farm

Sample ID	2034A-18-B01-1	2034A-18-B01-1 DUP	2034A-18-B01-2	2034A-18-B03-1	2034A-18-B03-2	2034A-18-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	0-4	4-8	0-4	4-8	0-4							
Sample Date	11/8/2012	11/8/2012	11/8/2012	11/12/2012	11/12/2012	11/8/2012							
PID	0	0	0	0	0	0							
Sample pH	6.89	6.69	6.44	7.72	8.11	7.91							
Matrix	Soil	Soil	Soil	Soil	Soil	Soil							
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>													
Arsenic	5.8	4	3.3	12	1.3	4.7	6.1	11.3	NA	11.3	NA	13	NA

Sample ID	2034A-18-B04-2	2034A-18-B05-1	2034A-18-B05-2	2034A-18-B07-1	2034A-18-B07-2	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)	4-8	0-4	4-8	0-4	4-8						
Sample Date	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012						
PID	0	0	0	0	0						
Sample pH	6.84	6.55	7.37	8.18	8.32						
Matrix	Soil	Soil	Soil	Soil	Soil						
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>											
Arsenic	5.5	6.5	2.5	4.3	7.9	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: 500-52177-1  
Client Project/Site: IDOT - US Route 30 - WO 053

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

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 8:25:23 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 Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-1**

**Lab Sample ID: 500-52177-5**

Date Collected: 11/08/12 07:50

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0059		0.0059	0.0025	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Benzene	<0.0059		0.0059	0.00081	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Bromodichloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Bromoform	<0.0059		0.0059	0.0014	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Bromomethane	<0.0059		0.0059	0.0018	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
2-Butanone (MEK)	<0.0059		0.0059	0.0021	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Carbon disulfide	<0.0059		0.0059	0.00088	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Carbon tetrachloride	<0.0059		0.0059	0.0011	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Chlorobenzene	<0.0059		0.0059	0.00060	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Chloroethane	<0.0059		0.0059	0.0016	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Chloroform	<0.0059		0.0059	0.00068	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Chloromethane	<0.0059		0.0059	0.0012	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
cis-1,2-Dichloroethene	<0.0059		0.0059	0.00083	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
cis-1,3-Dichloropropene	<0.0059		0.0059	0.00077	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Dibromochloromethane	<0.0059		0.0059	0.0010	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,1-Dichloroethane	<0.0059		0.0059	0.00093	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,2-Dichloroethane	<0.0059		0.0059	0.00087	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,1-Dichloroethene	<0.0059		0.0059	0.00095	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,2-Dichloropropane	<0.0059		0.0059	0.00090	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,3-Dichloropropene, Total	<0.0059		0.0059	0.00077	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Ethylbenzene	<0.0059		0.0059	0.0012	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
2-Hexanone	<0.0059		0.0059	0.0017	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Methylene Chloride	<0.0059		0.0059	0.0016	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0015	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Methyl tert-butyl ether	<0.0059		0.0059	0.00097	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Styrene	<0.0059		0.0059	0.00077	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,1,2,2-Tetrachloroethane	<0.0059		0.0059	0.0012	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Tetrachloroethene	<0.0059		0.0059	0.00090	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Toluene	<0.0059		0.0059	0.00083	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
trans-1,2-Dichloroethene	<0.0059		0.0059	0.00081	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
trans-1,3-Dichloropropene	<0.0059		0.0059	0.0011	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,1,1-Trichloroethane	<0.0059		0.0059	0.00088	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
1,1,2-Trichloroethane	<0.0059		0.0059	0.00081	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Trichloroethene	<0.0059		0.0059	0.00097	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Vinyl chloride	<0.0059		0.0059	0.0012	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	11/08/12 07:50	11/15/12 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/08/12 07:50	11/15/12 03:39	1
Dibromofluoromethane	101		73 - 122	11/08/12 07:50	11/15/12 03:39	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/08/12 07:50	11/15/12 03:39	1
Toluene-d8 (Surr)	95		72 - 122	11/08/12 07:50	11/15/12 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-1**

**Lab Sample ID: 500-52177-5**

Date Collected: 11/08/12 07:50

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Anthracene	<0.038	*	0.038	0.0090	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Benzo[a]anthracene	<0.038		0.038	0.0080	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Chrysene	<0.038		0.038	0.0086	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-1**

**Lab Sample ID: 500-52177-5**

Date Collected: 11/08/12 07:50

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0074	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/19/12 16:41	11/29/12 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110	11/19/12 16:41	11/29/12 00:31	1
Phenol-d5	75		31 - 110	11/19/12 16:41	11/29/12 00:31	1
Nitrobenzene-d5	75		30 - 115	11/19/12 16:41	11/29/12 00:31	1
2-Fluorobiphenyl	78		30 - 119	11/19/12 16:41	11/29/12 00:31	1
2,4,6-Tribromophenol	75		35 - 137	11/19/12 16:41	11/29/12 00:31	1
Terphenyl-d14	88		36 - 134	11/19/12 16:41	11/29/12 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Arsenic</b>	<b>4.3</b>		0.56	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Barium</b>	<b>19</b>		0.56	0.066	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Beryllium</b>	<b>0.46</b>		0.22	0.016	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Boron</b>	<b>4.7</b>		2.8	0.52	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Cadmium</b>	<b>0.080</b>	<b>J</b>	0.11	0.028	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Calcium</b>	<b>4200</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Chromium</b>	<b>10</b>		0.56	0.093	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Cobalt</b>	<b>4.4</b>		0.28	0.029	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Copper</b>	<b>20</b>		0.56	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Iron</b>	<b>15000</b>		11	4.8	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Lead</b>	<b>19</b>	<b>B</b>	0.28	0.096	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Magnesium</b>	<b>3900</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Manganese</b>	<b>67</b>		0.56	0.078	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Nickel</b>	<b>13</b>		0.56	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Potassium</b>	<b>1000</b>		28	3.1	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Sodium</b>	<b>99</b>	<b>B</b>	56	10	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Vanadium</b>	<b>19</b>		0.28	0.042	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1
<b>Zinc</b>	<b>36</b>		1.1	0.38	mg/Kg	☼	11/12/12 09:55	11/17/12 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 16:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 16:06	1
<b>Boron</b>	<b>0.059</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 16:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 16:06	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-1**

**Lab Sample ID: 500-52177-5**

Date Collected: 11/08/12 07:50

Matrix: Solid

Date Received: 11/08/12 15:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:06	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:06	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:06	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 16:06	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 16:06	1
<b>Manganese</b>	<b>0.084</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:06	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:06	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 16:06	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:06	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 16:06	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		11/16/12 15:30	11/26/12 12:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:01	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.014</b>	J	0.018	0.0070	mg/Kg	☼	11/19/12 17:00	11/20/12 10:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.18</b>		0.200	0.200	SU			11/13/12 10:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-2**

**Lab Sample ID: 500-52177-6**

Date Collected: 11/08/12 07:55

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Chloroethane	<0.0046		0.0046	0.0013	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00083	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	11/08/12 07:55	11/14/12 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/08/12 07:55	11/14/12 14:51	1
Dibromofluoromethane	94		73 - 122	11/08/12 07:55	11/14/12 14:51	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	11/08/12 07:55	11/14/12 14:51	1
Toluene-d8 (Surr)	95		72 - 122	11/08/12 07:55	11/14/12 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-2**

**Lab Sample ID: 500-52177-6**

Date Collected: 11/08/12 07:55

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Hexachlorobutadiene	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Anthracene	<0.038	*	0.038	0.0091	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-2**

**Lab Sample ID: 500-52177-6**

Date Collected: 11/08/12 07:55

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/19/12 16:41	11/29/12 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	11/19/12 16:41	11/29/12 00:54	1
Phenol-d5	67		31 - 110	11/19/12 16:41	11/29/12 00:54	1
Nitrobenzene-d5	67		30 - 115	11/19/12 16:41	11/29/12 00:54	1
2-Fluorobiphenyl	71		30 - 119	11/19/12 16:41	11/29/12 00:54	1
2,4,6-Tribromophenol	73		35 - 137	11/19/12 16:41	11/29/12 00:54	1
Terphenyl-d14	81		36 - 134	11/19/12 16:41	11/29/12 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Arsenic</b>	<b>7.9</b>		0.57	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Barium</b>	<b>14</b>		0.57	0.068	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Beryllium</b>	<b>0.32</b>		0.23	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Boron</b>	<b>5.1</b>		2.9	0.53	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Cadmium</b>	<b>0.23</b>		0.11	0.028	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Calcium</b>	<b>14000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Chromium</b>	<b>6.3</b>		0.57	0.095	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Cobalt</b>	<b>7.5</b>		0.29	0.030	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Copper</b>	<b>15</b>		0.57	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Iron</b>	<b>8000</b>		11	5.0	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Lead</b>	<b>7.3</b>	<b>B</b>	0.29	0.098	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Magnesium</b>	<b>9400</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Manganese</b>	<b>110</b>		0.57	0.081	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Nickel</b>	<b>16</b>		0.57	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Potassium</b>	<b>970</b>		29	3.2	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Sodium</b>	<b>120</b>	<b>B</b>	57	10	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Vanadium</b>	<b>9.3</b>		0.29	0.043	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1
<b>Zinc</b>	<b>31</b>		1.1	0.39	mg/Kg	☼	11/12/12 09:55	11/17/12 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 16:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 16:12	1
<b>Boron</b>	<b>0.78</b>		0.50	0.050	mg/L		11/16/12 15:30	11/17/12 16:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 16:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B07-2**

**Lab Sample ID: 500-52177-6**

Date Collected: 11/08/12 07:55

Matrix: Solid

Date Received: 11/08/12 15:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:12	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:12	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:12	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 16:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 16:12	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:12	1
<b>Nickel</b>	<b>0.035</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:12	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 16:12	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:12	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 15:30	11/17/12 16:12	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		11/16/12 15:30	11/26/12 12:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:03	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.019</b>		0.017	0.0067	mg/Kg	☼	11/19/12 17:00	11/20/12 10:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.32</b>		0.200	0.200	SU			11/13/12 10:24	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-1**

**Lab Sample ID: 500-52177-13**

Date Collected: 11/08/12 09:10

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0047		0.0047	0.0020	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Benzene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Carbon disulfide	<0.0047		0.0047	0.00070	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Carbon tetrachloride	<0.0047		0.0047	0.00085	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Chlorobenzene	<0.0047		0.0047	0.00047	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Chloromethane	<0.0047		0.0047	0.00098	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00066	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Dibromochloromethane	<0.0047		0.0047	0.00081	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,1-Dichloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,1-Dichloroethene	<0.0047		0.0047	0.00075	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,2-Dichloropropane	<0.0047		0.0047	0.00071	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00061	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Ethylbenzene	<0.0047		0.0047	0.00094	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
2-Hexanone	<0.0047		0.0047	0.0013	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00077	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Styrene	<0.0047		0.0047	0.00061	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,1,1,2-Tetrachloroethane	<0.0047		0.0047	0.00094	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Tetrachloroethene	<0.0047		0.0047	0.00071	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Toluene	<0.0047		0.0047	0.00065	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00064	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00083	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00063	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Trichloroethene	<0.0047		0.0047	0.00077	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Vinyl chloride	<0.0047		0.0047	0.00098	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1
Xylenes, Total	<0.0093		0.0093	0.00042	mg/Kg	☼	11/08/12 09:10	11/14/12 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		76 - 120	11/08/12 09:10	11/14/12 17:30	1
Dibromofluoromethane	97		73 - 122	11/08/12 09:10	11/14/12 17:30	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/08/12 09:10	11/14/12 17:30	1
Toluene-d8 (Surr)	93		72 - 122	11/08/12 09:10	11/14/12 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.065	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.060	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
1,3-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
1,4-Dichlorobenzene	<0.21		0.21	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-1**

**Lab Sample ID: 500-52177-13**

Date Collected: 11/08/12 09:10

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2-Chlorophenol	<0.21		0.21	0.058	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Isophorone	<0.21		0.21	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Hexachlorobutadiene	<0.21		0.21	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Naphthalene	<0.041		0.041	0.0079	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,4-Dichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
4-Chloroaniline	<0.82		0.82	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,4,6-Trichlorophenol	<0.41		0.41	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Hexachlorocyclopentadiene	<0.82		0.82	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2-Methylnaphthalene	<0.21		0.21	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2-Nitroaniline	<0.21		0.21	0.073	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2-Nitrophenol	<0.41		0.41	0.064	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
3-Nitroaniline	<0.41		0.41	0.079	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Dimethyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,4-Dinitrophenol	<0.82		0.82	0.21	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Acenaphthylene	<0.041		0.041	0.0094	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
2,4-Dinitrotoluene	<0.21		0.21	0.063	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
4-Nitrophenol	<0.82		0.82	0.22	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Fluorene	<0.041		0.041	0.0093	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
4-Nitroaniline	<0.41		0.41	0.084	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Hexachlorobenzene	<0.082		0.082	0.0080	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Diethyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.064	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Pentachlorophenol	<0.82		0.82	0.21	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
N-Nitrosodiphenylamine	<0.21	*	0.21	0.055	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.099	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Anthracene	<0.041	*	0.041	0.0096	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Carbazole	<0.21		0.21	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Di-n-butyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Pyrene	<0.041		0.041	0.015	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Butyl benzyl phthalate	<0.21		0.21	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Benzo[a]anthracene	<0.041		0.041	0.0086	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Chrysene	<0.041		0.041	0.0092	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-1**

**Lab Sample ID: 500-52177-13**

Date Collected: 11/08/12 09:10

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.034	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Di-n-octyl phthalate	<0.21		0.21	0.083	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Benzo[b]fluoranthene	<0.041		0.041	0.0079	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Benzo[k]fluoranthene	<0.041		0.041	0.0097	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Benzo[a]pyrene	<0.041		0.041	0.0074	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Dibenz(a,h)anthracene	<0.041		0.041	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
Benzo[g,h,i]perylene	<0.041		0.041	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1
3 & 4 Methylphenol	<0.21		0.21	0.077	mg/Kg	☼	11/19/12 16:41	11/29/12 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	62		30 - 110	11/19/12 16:41	11/29/12 03:39	1
Phenol-d5	65		31 - 110	11/19/12 16:41	11/29/12 03:39	1
Nitrobenzene-d5	63		30 - 115	11/19/12 16:41	11/29/12 03:39	1
2-Fluorobiphenyl	62		30 - 119	11/19/12 16:41	11/29/12 03:39	1
2,4,6-Tribromophenol	80		35 - 137	11/19/12 16:41	11/29/12 03:39	1
Terphenyl-d14	84		36 - 134	11/19/12 16:41	11/29/12 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Arsenic</b>	<b>6.1</b>		0.58	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Barium</b>	<b>98</b>		0.58	0.069	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Beryllium</b>	<b>1.1</b>		0.23	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Boron</b>	<b>8.0</b>		2.9	0.54	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Cadmium</b>	<b>0.42</b>		0.12	0.029	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Calcium</b>	<b>2700</b>	<b>B</b>	12	2.0	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Chromium</b>	<b>26</b>		0.58	0.097	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Cobalt</b>	<b>17</b>		0.29	0.030	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Copper</b>	<b>26</b>		0.58	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Iron</b>	<b>25000</b>		12	5.0	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Lead</b>	<b>21</b>	<b>B</b>	0.29	0.099	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Magnesium</b>	<b>6000</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Manganese</b>	<b>520</b>		0.58	0.081	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Nickel</b>	<b>39</b>		0.58	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Potassium</b>	<b>2200</b>		29	3.3	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Sodium</b>	<b>110</b>	<b>B</b>	58	11	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Thallium</b>	<b>0.33</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Vanadium</b>	<b>30</b>		0.29	0.044	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1
<b>Zinc</b>	<b>65</b>		1.2	0.40	mg/Kg	☼	11/12/12 09:55	11/17/12 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 17:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 17:10	1
<b>Boron</b>	<b>3.0</b>		0.50	0.050	mg/L		11/16/12 15:30	11/17/12 17:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 17:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-1**

**Lab Sample ID: 500-52177-13**

Date Collected: 11/08/12 09:10

Matrix: Solid

Date Received: 11/08/12 15:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:10	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:10	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:10	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 17:10	1
<b>Lead</b>	<b>0.0050</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 17:10	1
<b>Manganese</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:10	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:10	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 17:10	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:10	1
<b>Zinc</b>	<b>0.043</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 15:30	11/17/12 17:10	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		11/16/12 15:30	11/26/12 13:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.036</b>		0.019	0.0074	mg/Kg	☼	11/19/12 17:00	11/20/12 10:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.91</b>		0.200	0.200	SU			11/13/12 10:47	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-2**

**Lab Sample ID: 500-52177-14**

Date Collected: 11/08/12 09:15

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0020	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/08/12 09:15	11/14/12 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/08/12 09:15	11/14/12 17:53	1
Dibromofluoromethane	95		73 - 122	11/08/12 09:15	11/14/12 17:53	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/08/12 09:15	11/14/12 17:53	1
Toluene-d8 (Surr)	101		72 - 122	11/08/12 09:15	11/14/12 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-2**

**Lab Sample ID: 500-52177-14**

Date Collected: 11/08/12 09:15

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Anthracene	<0.037	*	0.037	0.0088	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
<b>Chrysene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-2**

**Lab Sample ID: 500-52177-14**

Date Collected: 11/08/12 09:15

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/19/12 16:41	11/29/12 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 110	11/19/12 16:41	11/29/12 04:02	1
Phenol-d5	74		31 - 110	11/19/12 16:41	11/29/12 04:02	1
Nitrobenzene-d5	72		30 - 115	11/19/12 16:41	11/29/12 04:02	1
2-Fluorobiphenyl	74		30 - 119	11/19/12 16:41	11/29/12 04:02	1
2,4,6-Tribromophenol	73		35 - 137	11/19/12 16:41	11/29/12 04:02	1
Terphenyl-d14	84		36 - 134	11/19/12 16:41	11/29/12 04:02	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Arsenic</b>	<b>5.5</b>		0.55	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Barium</b>	<b>8.0</b>		0.55	0.066	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Beryllium</b>	<b>0.32</b>		0.22	0.016	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Boron</b>	<b>4.7</b>		2.8	0.51	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Cadmium</b>	<b>0.21</b>		0.11	0.027	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Calcium</b>	<b>25000</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Chromium</b>	<b>6.9</b>		0.55	0.092	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Cobalt</b>	<b>4.3</b>		0.28	0.029	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Copper</b>	<b>17</b>		0.55	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Iron</b>	<b>13000</b>		11	4.8	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Lead</b>	<b>9.1</b>	<b>B</b>	0.28	0.095	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Magnesium</b>	<b>15000</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Manganese</b>	<b>220</b>		0.55	0.078	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Nickel</b>	<b>13</b>		0.55	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Potassium</b>	<b>880</b>		28	3.1	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Sodium</b>	<b>93</b>	<b>B</b>	55	10	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Vanadium</b>	<b>9.9</b>		0.28	0.042	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1
<b>Zinc</b>	<b>27</b>		1.1	0.38	mg/Kg	☼	11/12/12 09:55	11/17/12 13:28	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 17:17	1
<b>Boron</b>	<b>0.086</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 17:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 17:17	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B04-2**

**Lab Sample ID: 500-52177-14**

Date Collected: 11/08/12 09:15

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:17	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:17	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:17	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 17:17	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 17:17	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:17	1
<b>Nickel</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:17	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 17:17	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:17	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 17:17	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		11/16/12 15:30	11/26/12 13:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:25	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.024</b>		0.017	0.0066	mg/Kg	☼	11/19/12 17:00	11/20/12 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>6.84</b>		0.200	0.200	SU			11/13/12 10:51	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1**

**Lab Sample ID: 500-52177-15**

Date Collected: 11/08/12 09:20

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 86.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg	☼	11/08/12 09:20	11/14/12 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/08/12 09:20	11/14/12 18:16	1
Dibromofluoromethane	92		73 - 122	11/08/12 09:20	11/14/12 18:16	1
1,2-Dichloroethane-d4 (Surr)	83		74 - 123	11/08/12 09:20	11/14/12 18:16	1
Toluene-d8 (Surr)	93		72 - 122	11/08/12 09:20	11/14/12 18:16	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1**

**Lab Sample ID: 500-52177-15**

Date Collected: 11/08/12 09:20

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 86.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Anthracene	<0.037	*	0.037	0.0087	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1**

**Lab Sample ID: 500-52177-15**

Date Collected: 11/08/12 09:20

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 86.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
<b>Benzo[b]fluoranthene</b>	<b>0.011</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/19/12 16:41	11/29/12 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110	11/19/12 16:41	11/29/12 04:25	1
Phenol-d5	69		31 - 110	11/19/12 16:41	11/29/12 04:25	1
Nitrobenzene-d5	73		30 - 115	11/19/12 16:41	11/29/12 04:25	1
2-Fluorobiphenyl	76		30 - 119	11/19/12 16:41	11/29/12 04:25	1
2,4,6-Tribromophenol	82		35 - 137	11/19/12 16:41	11/29/12 04:25	1
Terphenyl-d14	88		36 - 134	11/19/12 16:41	11/29/12 04:25	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Arsenic</b>	<b>5.8</b>		0.58	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Barium</b>	<b>38</b>		0.58	0.069	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Beryllium</b>	<b>0.46</b>		0.23	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Boron</b>	<b>3.4</b>		2.9	0.54	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Cadmium</b>	<b>0.035</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Calcium</b>	<b>980</b>	<b>B</b>	12	2.0	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Chromium</b>	<b>11</b>		0.58	0.097	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Cobalt</b>	<b>6.7</b>		0.29	0.030	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Copper</b>	<b>12</b>		0.58	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Iron</b>	<b>13000</b>		12	5.0	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Lead</b>	<b>9.9</b>	<b>B</b>	0.29	0.099	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Magnesium</b>	<b>1900</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Manganese</b>	<b>140</b>		0.58	0.081	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Nickel</b>	<b>13</b>		0.58	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Potassium</b>	<b>800</b>		29	3.3	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Sodium</b>	<b>54</b>	<b>J B</b>	58	11	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Vanadium</b>	<b>14</b>		0.29	0.044	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1
<b>Zinc</b>	<b>32</b>		1.2	0.40	mg/Kg	☼	11/12/12 09:55	11/17/12 13:34	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 17:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 17:23	1
<b>Boron</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 17:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 17:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1**

**Lab Sample ID: 500-52177-15**

Date Collected: 11/08/12 09:20

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:23	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:23	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:23	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 17:23	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 17:23	1
<b>Manganese</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:23	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:23	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 17:23	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:23	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 17:23	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		11/16/12 15:30	11/26/12 13:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:27	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.023</b>		0.017	0.0066	mg/Kg	☼	11/19/12 17:00	11/20/12 10:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>6.89</b>		0.200	0.200	SU			11/13/12 10:57	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-2**

**Lab Sample ID: 500-52177-16**

Date Collected: 11/08/12 09:25

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 94.4

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.036		0.0050	0.0022	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Toluene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/08/12 09:25	11/15/12 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/08/12 09:25	11/15/12 04:24	1
Dibromofluoromethane	101		73 - 122	11/08/12 09:25	11/15/12 04:24	1
1,2-Dichloroethane-d4 (Surr)	100		74 - 123	11/08/12 09:25	11/15/12 04:24	1
Toluene-d8 (Surr)	97		72 - 122	11/08/12 09:25	11/15/12 04:24	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-2**

**Lab Sample ID: 500-52177-16**

Date Collected: 11/08/12 09:25

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 94.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Naphthalene	<0.034		0.034	0.0066	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,4,5-Trichlorophenol	<0.34		0.34	0.097	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2-Nitroaniline	<0.17		0.17	0.061	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,6-Dinitrotoluene	<0.17		0.17	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2-Nitrophenol	<0.34		0.34	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,4-Dinitrophenol	<0.69		0.69	0.17	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Acenaphthylene	<0.034		0.034	0.0078	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Acenaphthene	<0.034		0.034	0.010	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Fluorene	<0.034		0.034	0.0077	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
N-Nitrosodiphenylamine	<0.17	*	0.17	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Phenanthrene	<0.034		0.034	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Anthracene	<0.034	*	0.034	0.0080	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Fluoranthene	<0.034		0.034	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Pyrene	<0.034		0.034	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Benzo[a]anthracene	<0.034		0.034	0.0071	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
<b>Chrysene</b>	<b>0.0092</b>	<b>J</b>	0.034	0.0077	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-2**

**Lab Sample ID: 500-52177-16**

Date Collected: 11/08/12 09:25

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 94.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.17		0.17	0.028	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Benzo[b]fluoranthene	<0.034		0.034	0.0066	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Benzo[k]fluoranthene	<0.034		0.034	0.0081	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Benzo[a]pyrene	<0.034		0.034	0.0062	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0095	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1
3 & 4 Methylphenol	<0.17		0.17	0.064	mg/Kg	☼	11/19/12 16:41	11/29/12 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	53		30 - 110	11/19/12 16:41	11/29/12 04:49	1
Phenol-d5	56		31 - 110	11/19/12 16:41	11/29/12 04:49	1
Nitrobenzene-d5	57		30 - 115	11/19/12 16:41	11/29/12 04:49	1
2-Fluorobiphenyl	58		30 - 119	11/19/12 16:41	11/29/12 04:49	1
2,4,6-Tribromophenol	62		35 - 137	11/19/12 16:41	11/29/12 04:49	1
Terphenyl-d14	61		36 - 134	11/19/12 16:41	11/29/12 04:49	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Arsenic</b>	<b>3.3</b>		0.51	0.11	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Barium</b>	<b>7.4</b>		0.51	0.061	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Beryllium</b>	<b>0.24</b>		0.20	0.015	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Boron</b>	<b>3.8</b>		2.6	0.48	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Cadmium</b>	<b>0.20</b>		0.10	0.025	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Calcium</b>	<b>23000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Chromium</b>	<b>4.6</b>		0.51	0.085	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Cobalt</b>	<b>3.4</b>		0.26	0.027	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Copper</b>	<b>12</b>		0.51	0.14	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Iron</b>	<b>6700</b>		10	4.4	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Lead</b>	<b>6.4</b>	<b>B</b>	0.26	0.088	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Magnesium</b>	<b>12000</b>	<b>B</b>	5.1	0.99	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Manganese</b>	<b>190</b>		0.51	0.072	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Nickel</b>	<b>8.7</b>		0.51	0.11	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Potassium</b>	<b>700</b>		26	2.9	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Sodium</b>	<b>80</b>	<b>B</b>	51	9.3	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Vanadium</b>	<b>7.6</b>		0.26	0.039	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1
<b>Zinc</b>	<b>28</b>		1.0	0.35	mg/Kg	☼	11/12/12 09:55	11/17/12 13:41	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 17:29	1
<b>Boron</b>	<b>0.068</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 17:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 17:29	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-2**

**Lab Sample ID: 500-52177-16**

Date Collected: 11/08/12 09:25

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:29	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:29	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:29	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 17:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 17:29	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:29	1
<b>Nickel</b>	<b>0.036</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:29	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 17:29	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:29	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 17:29	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		11/16/12 15:30	11/26/12 13:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 13:08	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		11/16/12 13:30	11/19/12 12:33	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0080</b>	<b>J</b>	0.017	0.0066	mg/Kg	☼	11/19/12 17:00	11/20/12 10:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.44</b>		0.200	0.200	SU			11/13/12 11:00	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1DUP**

**Lab Sample ID: 500-52177-17**

Date Collected: 11/08/12 09:30

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 82.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0057		0.0057	0.0025	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Bromodichloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Bromomethane	<0.0057		0.0057	0.0017	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
2-Butanone (MEK)	<0.0057		0.0057	0.0021	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Chlorobenzene	<0.0057		0.0057	0.00058	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Chloroethane	<0.0057		0.0057	0.0015	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Chloroform	<0.0057		0.0057	0.00065	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00080	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00074	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Dibromochloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,1-Dichloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,1-Dichloroethene	<0.0057		0.0057	0.00092	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,2-Dichloropropane	<0.0057		0.0057	0.00086	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00074	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Ethylbenzene	<0.0057		0.0057	0.0011	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00094	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Styrene	<0.0057		0.0057	0.00074	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,1,2,2-Tetrachloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Tetrachloroethene	<0.0057		0.0057	0.00087	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Toluene	<0.0057		0.0057	0.00079	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00078	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00077	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Trichloroethene	<0.0057		0.0057	0.00094	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1
Xylenes, Total	<0.011		0.011	0.00051	mg/Kg	☼	11/08/12 09:30	11/14/12 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		76 - 120	11/08/12 09:30	11/14/12 19:02	1
Dibromofluoromethane	92		73 - 122	11/08/12 09:30	11/14/12 19:02	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	11/08/12 09:30	11/14/12 19:02	1
Toluene-d8 (Surr)	101		72 - 122	11/08/12 09:30	11/14/12 19:02	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1DUP**

**Lab Sample ID: 500-52177-17**

Date Collected: 11/08/12 09:30

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 82.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Acenaphthylene	<0.040		0.040	0.0091	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Anthracene	<0.040	*	0.040	0.0094	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1DUP**

**Lab Sample ID: 500-52177-17**

Date Collected: 11/08/12 09:30

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 82.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
<b>Benzo[b]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.040	0.0077	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
<b>Benzo[a]pyrene</b>	<b>0.0073</b>	<b>J</b>	0.040	0.0072	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/19/12 16:41	11/29/12 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110	11/19/12 16:41	11/29/12 05:13	1
Phenol-d5	68		31 - 110	11/19/12 16:41	11/29/12 05:13	1
Nitrobenzene-d5	71		30 - 115	11/19/12 16:41	11/29/12 05:13	1
2-Fluorobiphenyl	74		30 - 119	11/19/12 16:41	11/29/12 05:13	1
2,4,6-Tribromophenol	83		35 - 137	11/19/12 16:41	11/29/12 05:13	1
Terphenyl-d14	71		36 - 134	11/19/12 16:41	11/29/12 05:13	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Arsenic</b>	<b>4.0</b>		0.59	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Barium</b>	<b>46</b>		0.59	0.070	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Beryllium</b>	<b>0.47</b>		0.24	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Boron</b>	<b>3.1</b>		3.0	0.55	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Cadmium</b>	<b>0.10</b>	<b>J</b>	0.12	0.029	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Calcium</b>	<b>1100</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Chromium</b>	<b>11</b>		0.59	0.099	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Cobalt</b>	<b>7.0</b>		0.30	0.031	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Copper</b>	<b>8.3</b>		0.59	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Iron</b>	<b>12000</b>		12	5.1	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Lead</b>	<b>11</b>	<b>B</b>	0.30	0.10	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Magnesium</b>	<b>1900</b>	<b>B</b>	5.9	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Manganese</b>	<b>460</b>		0.59	0.084	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Nickel</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Potassium</b>	<b>740</b>		30	3.4	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Sodium</b>	<b>54</b>	<b>J B</b>	59	11	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Thallium</b>	<b>0.22</b>	<b>J</b>	0.59	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Vanadium</b>	<b>14</b>		0.30	0.045	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1
<b>Zinc</b>	<b>32</b>		1.2	0.41	mg/Kg	☼	11/12/12 09:55	11/17/12 14:26	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 17:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 17:35	1
<b>Boron</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 17:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 17:35	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B01-1DUP**

**Lab Sample ID: 500-52177-17**

Date Collected: 11/08/12 09:30

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:35	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:35	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:35	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 17:35	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 17:35	1
<b>Manganese</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:35	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:35	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 17:35	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:35	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 17:35	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		11/16/12 15:30	11/26/12 13:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:34	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.023</b>		0.019	0.0071	mg/Kg	☆	11/19/12 17:00	11/20/12 10:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>6.69</b>		0.200	0.200	SU			11/13/12 11:04	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-1**

**Lab Sample ID: 500-52177-18**

Date Collected: 11/08/12 09:35

Matrix: Solid

Date Received: 11/08/12 15:11

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	0.0021	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/08/12 09:35	11/14/12 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		76 - 120	11/08/12 09:35	11/14/12 19:25	1
Dibromofluoromethane	98		73 - 122	11/08/12 09:35	11/14/12 19:25	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/08/12 09:35	11/14/12 19:25	1
Toluene-d8 (Surr)	98		72 - 122	11/08/12 09:35	11/14/12 19:25	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-1**

**Lab Sample ID: 500-52177-18**

Date Collected: 11/08/12 09:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 82.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-1**

**Lab Sample ID: 500-52177-18**

Date Collected: 11/08/12 09:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 82.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/19/12 17:01	11/29/12 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		30 - 110	11/19/12 17:01	11/29/12 05:37	1
Phenol-d5	73		31 - 110	11/19/12 17:01	11/29/12 05:37	1
Nitrobenzene-d5	74		30 - 115	11/19/12 17:01	11/29/12 05:37	1
2-Fluorobiphenyl	80		30 - 119	11/19/12 17:01	11/29/12 05:37	1
2,4,6-Tribromophenol	82		35 - 137	11/19/12 17:01	11/29/12 05:37	1
Terphenyl-d14	84		36 - 134	11/19/12 17:01	11/29/12 05:37	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Arsenic</b>	<b>6.5</b>		0.60	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Barium</b>	<b>100</b>		0.60	0.071	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Beryllium</b>	<b>0.96</b>		0.24	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Boron</b>	<b>6.5</b>		3.0	0.56	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Cadmium</b>	<b>0.23</b>		0.12	0.030	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Calcium</b>	<b>2200</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Chromium</b>	<b>24</b>		0.60	0.10	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Cobalt</b>	<b>14</b>		0.30	0.031	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Copper</b>	<b>21</b>		0.60	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Iron</b>	<b>27000</b>		12	5.2	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Lead</b>	<b>15</b>	<b>B</b>	0.30	0.10	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Magnesium</b>	<b>4900</b>	<b>B</b>	6.0	1.2	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Manganese</b>	<b>400</b>		0.60	0.084	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Nickel</b>	<b>30</b>		0.60	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Potassium</b>	<b>2000</b>		30	3.4	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Sodium</b>	<b>89</b>	<b>B</b>	60	11	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Thallium</b>	<b>0.33</b>	<b>J</b>	0.60	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Vanadium</b>	<b>26</b>		0.30	0.045	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1
<b>Zinc</b>	<b>53</b>		1.2	0.41	mg/Kg	☼	11/12/12 09:55	11/17/12 14:32	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 17:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 17:41	1
<b>Boron</b>	<b>0.088</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 17:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 17:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-1**

**Lab Sample ID: 500-52177-18**

Date Collected: 11/08/12 09:35

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:41	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:41	1
<b>Iron</b>	<b>0.28</b>		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 17:41	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 17:41	1
<b>Manganese</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:41	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:41	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 17:41	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:41	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 17:41	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		11/16/12 15:30	11/26/12 13:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:36	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.037</b>		0.019	0.0074	mg/Kg	☼	11/19/12 17:00	11/20/12 11:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.55</b>		0.200	0.200	SU			11/13/12 11:07	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-2**

**Lab Sample ID: 500-52177-19**

Date Collected: 11/08/12 09:40

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 88.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0026	J	0.0050	0.0022	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/08/12 09:40	11/15/12 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/08/12 09:40	11/15/12 04:47	1
Dibromofluoromethane	110		73 - 122	11/08/12 09:40	11/15/12 04:47	1
1,2-Dichloroethane-d4 (Surr)	106		74 - 123	11/08/12 09:40	11/15/12 04:47	1
Toluene-d8 (Surr)	99		72 - 122	11/08/12 09:40	11/15/12 04:47	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-2**

**Lab Sample ID: 500-52177-19**

Date Collected: 11/08/12 09:40

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 88.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Hexachlorocyclopentadiene	<0.72		0.72	0.17	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Acenaphthylene	<0.036		0.036	0.0082	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Fluorene	<0.036		0.036	0.0081	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
4-Nitroaniline	<0.36		0.36	0.073	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Hexachlorobenzene	<0.072		0.072	0.0071	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
<b>Phenanthrene</b>	<b>0.031</b>	<b>J</b>	0.036	0.015	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Anthracene	<0.036		0.036	0.0084	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
<b>Pyrene</b>	<b>0.027</b>	<b>J</b>	0.036	0.013	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Benzo[a]anthracene	<0.036		0.036	0.0075	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
<b>Chrysene</b>	<b>0.014</b>	<b>J</b>	0.036	0.0081	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-2**

**Lab Sample ID: 500-52177-19**

Date Collected: 11/08/12 09:40

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 88.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Benzo[b]fluoranthene	<0.036		0.036	0.0070	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Benzo[k]fluoranthene	<0.036		0.036	0.0085	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Benzo[a]pyrene	<0.036		0.036	0.0065	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/19/12 17:01	11/29/12 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110	11/19/12 17:01	11/29/12 06:00	1
Phenol-d5	74		31 - 110	11/19/12 17:01	11/29/12 06:00	1
Nitrobenzene-d5	76		30 - 115	11/19/12 17:01	11/29/12 06:00	1
2-Fluorobiphenyl	78		30 - 119	11/19/12 17:01	11/29/12 06:00	1
2,4,6-Tribromophenol	78		35 - 137	11/19/12 17:01	11/29/12 06:00	1
Terphenyl-d14	89		36 - 134	11/19/12 17:01	11/29/12 06:00	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Arsenic</b>	<b>2.5</b>		0.55	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Barium</b>	<b>7.9</b>		0.55	0.065	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Beryllium</b>	<b>0.32</b>		0.22	0.016	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Boron</b>	<b>5.2</b>		2.7	0.51	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Cadmium</b>	<b>0.19</b>		0.11	0.027	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Calcium</b>	<b>27000</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Chromium</b>	<b>6.0</b>		0.55	0.092	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Cobalt</b>	<b>6.0</b>		0.27	0.029	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Copper</b>	<b>17</b>		0.55	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Iron</b>	<b>8400</b>		11	4.8	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Lead</b>	<b>7.9</b>	<b>B</b>	0.27	0.094	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Magnesium</b>	<b>17000</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Manganese</b>	<b>210</b>		0.55	0.077	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Nickel</b>	<b>12</b>		0.55	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Potassium</b>	<b>960</b>		27	3.1	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Sodium</b>	<b>96</b>	<b>B</b>	55	10	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Vanadium</b>	<b>9.7</b>		0.27	0.042	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1
<b>Zinc</b>	<b>28</b>		1.1	0.38	mg/Kg	☼	11/12/12 09:55	11/17/12 14:39	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.084</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 17:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 17:48	1
<b>Boron</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 17:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 17:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-18-B05-2**

**Lab Sample ID: 500-52177-19**

Date Collected: 11/08/12 09:40

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:48	1
<b>Cobalt</b>	<b>0.067</b>		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:48	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:48	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 17:48	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 17:48	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:48	1
<b>Nickel</b>	<b>0.044</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 17:48	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 17:48	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 17:48	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 15:30	11/17/12 17:48	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		11/16/12 15:30	11/26/12 13:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.014</b>	<b>J</b>	0.018	0.0069	mg/Kg	☼	11/19/12 17:00	11/20/12 11:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.37</b>		0.200	0.200	SU			11/13/12 11:10	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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	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

## 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>		<b>Laboratory</b>	
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 Name: <u>IL30</u> Project No.: <u>IDOT2011-053</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>5</u> Lab Job No.: <u>500-52177</u> Sample Temp.: <u>(36) (41)</u>	
Sampler: <u>MJN</u>		Matrix Key: W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other	

**Special Instructions:**  
 See Table 2 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 /mg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	2034A-24-B20-1	11-8-12	7:30	Soil	X	X	<del>XXXXXXXXXX</del>				X	X	X	X		0-4'
2	2034A-24-B20-2		7:35													A'-0'
3	2034A-24-B21-1		7:40													0-4'
4	2034A-24-B21-2		7:45													4-8'
5	2034A-18-B07-1		7:50													0-4'
6	2034A-18-B07-2		7:55													4-8'
7	2034A-21-B04-1		8:00													0-5'
8	2034A-21-B04-2		8:05													5-10'
9	2034A-21-B03-1		8:10													0-5'
10	2034A-21-B03-2		8:15													5-10'
11	2034A-18-B02-1		8:20													0-4'
12	2034A-18-B02-2		8:25													4-10'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u></u>	Received by: <u></u>	Date/Time: <u></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		<b>Project Name:</b> JL 30 <b>Project No.:</b> IDOT2011-053 <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 5 <b>Lab Job No.:</b> 500-52177 <b>Sample Temp:</b>									
<b>Special Instructions:</b> See Table A 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	2034A-18-B04-1	11-8-12	9:10	Soil	X	X					X	X	X		0-4'
14	2034A-18-B04-2		9:15								X	X	X		4-8'
15	2034A-18-B01-1		9:20								X	X	X		0-4'
16	2034A-18-B01-2		9:25								X	X	X		4-8'
17	2034A-18-B01-1 DUP		9:30								X	X	X		0-4'
18	2034A-18-B05-1		9:35								X	X	X		0-4'
19	2034A-18-B05-2		9:40								X	X	X		4-8'
20	2034A-18-B06-1		10:05								X	X	X		0-4'
21	2034A-18-B06-2		10:10								X	X	X		4-8'
22	2034A-24-B19-1		10:20								X	X	X		0-4'
23	2034A-24-B19-2		10:25								X	X	X		4-8'
24	2034A-24-B09-1		10:30								X	X	X		0-4'
Relinquished by: <i>Sam Mink</i>		Date/Time: 11/8/12		1511		Received by: <i>[Signature]</i>		Date/Time: 11/8/12		1511		Date/Time: 11/8/12		1511	
Relinquished by: <i>[Signature]</i>		Date/Time: 11/8/12		1605		Received by: <i>[Signature]</i>		Date/Time: 11/8/12		1605		Date/Time: 11/8/12		1605	
Relinquished by: <i>[Signature]</i>		Date/Time: 11/8/12		1605		Received by: <i>[Signature]</i>		Date/Time: 11/8/12		1605		Date/Time: 11/8/12		1605	

# 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: 500-52267-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
12/6/2012 4:13:57 PM

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.*

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
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- 13
- 14
- 15

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-1**

**Lab Sample ID: 500-52267-3**

**Date Collected: 11/12/12 09:30**

**Matrix: Solid**

**Date Received: 11/13/12 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	<0.0051		0.0051	0.0022	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Benzene	<0.0051		0.0051	0.00069	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Carbon disulfide	<0.0051		0.0051	0.00075	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Carbon tetrachloride	<0.0051		0.0051	0.00092	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Chlorobenzene	<0.0051		0.0051	0.00051	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Chloroform	<0.0051		0.0051	0.00058	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00066	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Dibromochloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,1-Dichloroethane	<0.0051		0.0051	0.00080	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,2-Dichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,1-Dichloroethene	<0.0051		0.0051	0.00082	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,2-Dichloropropane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00066	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00083	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Styrene	<0.0051		0.0051	0.00066	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Tetrachloroethene	<0.0051		0.0051	0.00077	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Toluene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00091	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00075	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00069	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Trichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/12/12 09:30	11/16/12 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		76 - 120	11/12/12 09:30	11/16/12 00:49	1
Dibromofluoromethane	104		73 - 122	11/12/12 09:30	11/16/12 00:49	1
1,2-Dichloroethane-d4 (Surr)	99		74 - 123	11/12/12 09:30	11/16/12 00:49	1
Toluene-d8 (Surr)	100		72 - 122	11/12/12 09:30	11/16/12 00:49	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-1**

**Lab Sample ID: 500-52267-3**

**Date Collected: 11/12/12 09:30**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 80.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Hexachlorobenzene	<0.079		0.079	0.0077	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.095	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Anthracene	<0.039		0.039	0.0092	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Carbazole	<0.20		0.20	0.055	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Pyrene	<0.039		0.039	0.014	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Benzo[a]anthracene	<0.039		0.039	0.0082	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1
Chrysene	<0.039		0.039	0.0088	mg/Kg	*	11/26/12 07:16	12/05/12 21:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-1**

**Lab Sample ID: 500-52267-3**

Date Collected: 11/12/12 09:30

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 80.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Benzo[b]fluoranthene	<0.039		0.039	0.0076	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/26/12 07:16	12/05/12 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110	11/26/12 07:16	12/05/12 21:09	1
Phenol-d5	54		31 - 110	11/26/12 07:16	12/05/12 21:09	1
Nitrobenzene-d5	62		30 - 115	11/26/12 07:16	12/05/12 21:09	1
2-Fluorobiphenyl	69		30 - 119	11/26/12 07:16	12/05/12 21:09	1
2,4,6-Tribromophenol	80		35 - 137	11/26/12 07:16	12/05/12 21:09	1
Terphenyl-d14	73		36 - 134	11/26/12 07:16	12/05/12 21:09	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Arsenic</b>	<b>12</b>		0.62	0.13	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Barium</b>	<b>64</b>		0.62	0.073	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Beryllium</b>	<b>0.47</b>		0.25	0.018	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Boron</b>	<b>2.6 J</b>		3.1	0.58	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Cadmium</b>	<b>0.27</b>		0.12	0.031	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Calcium</b>	<b>1100 B</b>		12	2.2	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Chromium</b>	<b>9.7</b>		0.62	0.10	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Cobalt</b>	<b>10</b>		0.31	0.032	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Copper</b>	<b>8.7</b>		0.62	0.17	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Iron</b>	<b>25000</b>		12	5.4	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Lead</b>	<b>9.9 B</b>		0.31	0.11	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Magnesium</b>	<b>1600 B</b>		6.2	1.2	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Manganese</b>	<b>330</b>		0.62	0.087	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Nickel</b>	<b>14</b>		0.62	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Potassium</b>	<b>490</b>		31	3.5	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
Selenium	<0.62		0.62	0.18	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Sodium</b>	<b>60 J B</b>		62	11	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
Thallium	<0.62		0.62	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Vanadium</b>	<b>18</b>		0.31	0.047	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1
<b>Zinc</b>	<b>28</b>		1.2	0.42	mg/Kg	☼	11/13/12 09:20	11/20/12 13:05	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19 J</b>		0.50	0.010	mg/L		11/19/12 15:30	11/27/12 19:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 19:55	1
<b>Boron</b>	<b>0.97</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 19:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 19:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-1**

**Lab Sample ID: 500-52267-3**

Date Collected: 11/12/12 09:30

Matrix: Solid

Date Received: 11/13/12 07:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 19:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 19:55	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 19:55	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 19:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 19:55	1
<b>Manganese</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 19:55	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 19:55	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 19:55	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 19:55	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 19:55	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		11/19/12 15:30	12/01/12 19:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:38	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000081</b>	<b>J B ^</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 12:26	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.031</b>		0.018	0.0068	mg/Kg	☼	11/27/12 17:00	11/28/12 14:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.72</b>		0.200	0.200	SU			11/17/12 09:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-2**

**Lab Sample ID: 500-52267-4**

Date Collected: 11/12/12 09:40

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 86.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0045	J	0.0050	0.0022	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Bromodichloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Carbon tetrachloride	<0.0050		0.0050	0.00092	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Chloroethane	<0.0050		0.0050	0.0014	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Dibromochloromethane	<0.0050		0.0050	0.00088	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,1-Dichloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,2-Dichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00069	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/12/12 09:40	11/16/12 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/12/12 09:40	11/16/12 01:12	1
Dibromofluoromethane	101		73 - 122	11/12/12 09:40	11/16/12 01:12	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/12/12 09:40	11/16/12 01:12	1
Toluene-d8 (Surr)	97		72 - 122	11/12/12 09:40	11/16/12 01:12	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-2**

**Lab Sample ID: 500-52267-4**

**Date Collected: 11/12/12 09:40**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 86.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
<b>Chrysene</b>	<b>0.024</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-2**

**Lab Sample ID: 500-52267-4**

Date Collected: 11/12/12 09:40

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 86.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
<b>Benzo[g,h,i]perylene</b>	<b>0.018</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/26/12 07:16	12/05/12 21:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		30 - 110				11/26/12 07:16	12/05/12 21:30	1
Phenol-d5	70		31 - 110				11/26/12 07:16	12/05/12 21:30	1
Nitrobenzene-d5	76		30 - 115				11/26/12 07:16	12/05/12 21:30	1
2-Fluorobiphenyl	86		30 - 119				11/26/12 07:16	12/05/12 21:30	1
2,4,6-Tribromophenol	94		35 - 137				11/26/12 07:16	12/05/12 21:30	1
Terphenyl-d14	96		36 - 134				11/26/12 07:16	12/05/12 21:30	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Arsenic</b>	<b>4.7</b>		0.56	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Barium</b>	<b>7.0</b>		0.56	0.067	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Beryllium</b>	<b>0.31</b>		0.22	0.016	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Boron</b>	<b>5.6</b>		2.8	0.52	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Cadmium</b>	<b>0.30</b>		0.11	0.028	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Calcium</b>	<b>28000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Chromium</b>	<b>6.2</b>		0.56	0.094	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Cobalt</b>	<b>5.1</b>		0.28	0.030	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Copper</b>	<b>21</b>		0.56	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Iron</b>	<b>9300</b>		11	4.9	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Lead</b>	<b>9.1</b>	<b>B</b>	0.28	0.097	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Magnesium</b>	<b>15000</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Manganese</b>	<b>230</b>		0.56	0.079	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Nickel</b>	<b>14</b>		0.56	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Potassium</b>	<b>1100</b>		28	3.2	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Selenium</b>	<b>0.22</b>	<b>J</b>	0.56	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Sodium</b>	<b>110</b>	<b>B</b>	56	10	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Thallium</b>	<b>0.22</b>	<b>J</b>	0.56	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Vanadium</b>	<b>9.6</b>		0.28	0.043	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1
<b>Zinc</b>	<b>33</b>		1.1	0.39	mg/Kg	☼	11/13/12 09:20	11/20/12 13:11	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 20:01	1
<b>Boron</b>	<b>1.2</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 20:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 20:01	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-18-B03-2**

**Lab Sample ID: 500-52267-4**

Date Collected: 11/12/12 09:40

Matrix: Solid

Date Received: 11/13/12 07:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:01	1
<b>Cobalt</b>	<b>0.028</b>		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 20:01	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:01	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 20:01	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 20:01	1
<b>Manganese</b>	<b>4.0</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:01	1
<b>Nickel</b>	<b>0.039</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:01	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 20:01	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 20:01	1
<b>Zinc</b>	<b>0.038</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 15:30	11/27/12 20:01	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		11/19/12 15:30	12/01/12 19:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:39	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		11/29/12 15:00	11/30/12 12:31	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.017</b>	<b>J</b>	0.018	0.0067	mg/Kg	☼	11/27/12 17:00	11/28/12 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.11</b>		0.200	0.200	SU			11/17/12 09:45	1

# Lab Chronicle

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B04-1**

**Lab Sample ID: 500-52267-24**

**Date Collected: 11/12/12 14:35**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	170124	(Start) 11/17/12 10:43 (End) 11/17/12 10:45	APW	TAL CHI

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

- 1
- 2
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# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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@testamericainc.com					Project Name: <u>US 30</u>					COC No.: <u>1 of 3</u>																																																																																																																																																																																																																									
										Project No.: <u>IDOT2011-053</u>					Lab Job No.: <u>500-52267</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>										<b>Matrix Key:</b> W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other																																																																																																																																																																																																																									
					<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BETX &amp; MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>Total Metals / <i>horg</i></th> <th>TCLP/SPLP Metals / <i>horg</i></th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2034A-16-B03</td> <td>11/12/12</td> <td>9:00</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>2</td> <td>2034A-16-B04</td> <td></td> <td>9:20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-5'</td> </tr> <tr> <td>3</td> <td>2034A-18-B03-1</td> <td></td> <td>9:30</td> <td></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>4</td> <td>2034A-18-B03-2</td> <td></td> <td>9:40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4-8'</td> </tr> <tr> <td>5</td> <td>2034A-16-B01</td> <td></td> <td>9:45</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0-5'</td> </tr> <tr> <td>6</td> <td>2034A-17-B01-1</td> <td></td> <td>9:50</td> <td></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>7</td> <td>2034A-17-B01-2</td> <td></td> <td>10:00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4-8'</td> </tr> <tr> <td>8</td> <td>2034A-17-B01-1-DW</td> <td></td> <td>10:05</td> <td></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>9</td> <td>2034A-<del>17</del>-B11-1</td> <td></td> <td>10:50</td> <td></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>10</td> <td>2034A-24-B11-2</td> <td></td> <td>10:55</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4-8'</td> </tr> <tr> <td>11</td> <td>2034A-6-B03-1</td> <td></td> <td>11:45</td> <td></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>12</td> <td>2034A-6-B03-2</td> <td></td> <td>12:00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4-8'</td> </tr> </tbody> </table>												Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / <i>horg</i>	TCLP/SPLP Metals / <i>horg</i>	pH	% Solids	Waste Characterization	Comments	1	2034A-16-B03	11/12/12	9:00	S	X	X					X	X	X	X		0-5'	2	2034A-16-B04		9:20													0-5'	3	2034A-18-B03-1		9:30													0-4'	4	2034A-18-B03-2		9:40													4-8'	5	2034A-16-B01		9:45													0-5'	6	2034A-17-B01-1		9:50													0-4'	7	2034A-17-B01-2		10:00													4-8'	8	2034A-17-B01-1-DW		10:05													0-4'	9	2034A- <del>17</del> -B11-1		10:50													0-4'	10	2034A-24-B11-2		10:55													4-8'	11	2034A-6-B03-1		11:45													0-4'	12	2034A-6-B03-2		12:00								
Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / <i>horg</i>	TCLP/SPLP Metals / <i>horg</i>	pH	% Solids	Waste Characterization	Comments																																																																																																																																																																																																																								
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December 10, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120039

Dear Colleen Grey:

TEKLAB, INC received 11 samples on 12/2/2013 12:20:00 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)



## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120039

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	16
Receiving Check List	17
Chain of Custody	Appended



**Client:** Andrews Engineering, Inc.

**Work Order:** 13120039

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120039

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-001

Client Sample ID: 2034A-18-B01-1

Matrix: SOLID

Collection Date: 11/26/2013 11:00

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	0.0016	0.005		<b>0.0563</b>	mg/L	1	12/06/2013 20:04	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-002

Client Sample ID: 2034A-18-B01-1 DUP

Matrix: SOLID

Collection Date: 11/26/2013 11:05

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	0.0016	0.005		<b>0.0823</b>	mg/L	1	12/06/2013 20:08	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-003

Client Sample ID: 2034A-18-B01-2

Matrix: SOLID

Collection Date: 11/26/2013 11:10

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>0.0115</b>	mg/L	1	12/06/2013 20:19	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-004

Client Sample ID: 2034A-18-B03-1

Matrix: SOLID

Collection Date: 11/26/2013 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>0.0795</b>	mg/L	1	12/06/2013 20:23	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-005

Client Sample ID: 2034A-18-B03-2

Matrix: SOLID

Collection Date: 11/26/2013 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	0.0016	0.005		<b>0.0866</b>	mg/L	1	12/06/2013 20:26	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-006

Client Sample ID: 2034A-18-B04-1

Matrix: SOLID

Collection Date: 11/26/2013 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	0.0016	0.005		<b>0.0957</b>	mg/L	1	12/06/2013 20:30	94360





## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-007

Client Sample ID: 2034A-18-B04-2

Matrix: SOLID

Collection Date: 11/26/2013 11:45

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>0.109</b>	mg/L	1	12/06/2013 20:34	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.  
Client Project: IDOT2011-053  
Lab ID: 13120039-008  
Matrix: SOLID

Work Order: 13120039  
Report Date: 10-Dec-13  
Client Sample ID: 2034A-18-B05-1  
Collection Date: 11/26/2013 11:15

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>0.0444</b>	mg/L	1	12/06/2013 20:37	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-009

Client Sample ID: 2034A-18-B05-2

Matrix: SOLID

Collection Date: 11/26/2013 11:20

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		<b>0.0644</b>	mg/L	1	12/06/2013 20:41	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-010

Client Sample ID: 2034A-18-B07-1

Matrix: SOLID

Collection Date: 11/26/2013 10:45

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>0.0901</b>	mg/L	1	12/06/2013 20:45	94360



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120039

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120039-011

Client Sample ID: 2034A-18-B07-2

Matrix: SOLID

Collection Date: 11/26/2013 10:50

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		<b>0.0567</b>	mg/L	1	12/06/2013 20:48	94360



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 Teklab  
 Address: 2417 Bond Street  
University Park, IL 60484  
 Phone: 708-534-5200  
 Contact: Dick Wright  
 email: dickwright@testamerica.com

Project Name: IL 30 Cook Co  
 Project No.: IDOT 2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other  
 Sampler: CBG

COC No.: 1 of 1  
 Lab Job No.: 13120039  
 Sample Temp: 5.0

**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.

**Matrix Key:**  
 W: Water  
 S: Soil  
 SL: Sludge  
 S: Sediment  
 L: Leachate  
 DW: Drinking Water  
 OL: Oil  
 O: Other

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
1320039	2034A-18-B01-1	11/26/13	1100	S											X SPLP MN/** TCLP MN	
202	2034A-18-B01-DUP	11/26/13	1105													
203	2034A-18-B01-2	11/26/13	1110													
204	2034A-18-B03-1	11/26/13	1155													
205	2034A-18-B03-2	11/26/13	1200													
206	2034A-18-B04-1	11/26/13	1140													
207	2034A-18-B04-2	11/26/13	1145													
208	2034A-18-B05-1	11/26/13	1115													
209	2034A-18-B05-2	11/26/13	1120													
210	2034A-18-B07-1	11/26/13	1045													
211	2034A-18-B07-2	11/26/13	1050	S											X	

Teklab, Inc.  
Courier Pick Up

**ANALYSES**

Received by: [Signature] Date/Time: 12/2/13 9:25

Relinquished by: [Signature] Date/Time: 12/2/13 12:00

Relinquished by: [Signature] Date/Time: 12/2/13 12:00



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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21922 and 21944 East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.49689 Longitude: -87.52931

(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.49689 Longitude: -87.52931

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 2034/A-21-B02 AND -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-21. SEE FIGURE 3 AND TABLE 5q 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: 500-52120 AND 500-52177. TEKLAB WORK ORDER NO.: 13120041.

**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

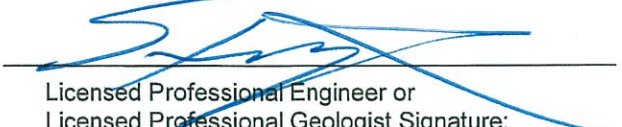
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

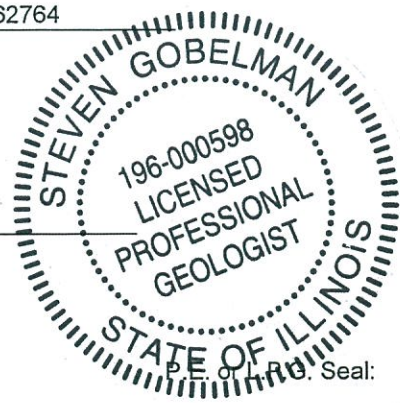
Phone: 217.785.4246

Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

3/17/14  
 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
1,1,1,2-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 2034A-21**

**Craver's Chicken**

Sample ID	2034A-21-B02-1	2034A-21-B02-2	2034A-21-B04-1	2034A-21-B04-2						
Sample Depth (ft)	0-5	5-10	0-5	5-10						
Sample Date	11/7/2012	11/7/2012	11/8/2012	11/8/2012						
PID	0	0	0	0						
Sample pH	7.79	7.82	8.45	8.11						
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: 500-52120-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/26/2012 5:00:35 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.*

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-1**

**Lab Sample ID: 500-52120-13**

**Date Collected: 11/07/12 09:55**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 80.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0031</b>	<b>J</b>	0.0058	0.0025	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Benzene	<0.0058		0.0058	0.00080	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Bromodichloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Bromomethane	<0.0058		0.0058	0.0018	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Carbon disulfide	<0.0058		0.0058	0.00087	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Chloroform	<0.0058		0.0058	0.00067	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,1-Dichloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,1-Dichloroethene	<0.0058		0.0058	0.00094	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,2-Dichloropropane	<0.0058		0.0058	0.00088	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
<b>Methylene Chloride</b>	<b>0.0053</b>	<b>J</b>	0.0058	0.0016	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00096	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Tetrachloroethene	<0.0058		0.0058	0.00089	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Toluene	<0.0058		0.0058	0.00082	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00080	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Trichloroethene	<0.0058		0.0058	0.00096	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	11/07/12 09:55	11/13/12 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/07/12 09:55	11/13/12 18:14	1
Dibromofluoromethane	94		73 - 122	11/07/12 09:55	11/13/12 18:14	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/07/12 09:55	11/13/12 18:14	1
Toluene-d8 (Surr)	99		72 - 122	11/07/12 09:55	11/13/12 18:14	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-1**

**Lab Sample ID: 500-52120-13**

Date Collected: 11/07/12 09:55

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 80.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Naphthalene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Phenanthrene</b>	<b>0.13</b>		0.039	0.017	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Anthracene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0093	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Fluoranthene</b>	<b>0.14</b>		0.039	0.016	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Pyrene</b>	<b>0.13</b>		0.039	0.014	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Chrysene	<0.039		0.039	0.0090	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-1**

**Lab Sample ID: 500-52120-13**

Date Collected: 11/07/12 09:55

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 80.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Benzo[b]fluoranthene</b>	<b>0.090</b>		0.039	0.0077	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Benzo[k]fluoranthene</b>	<b>0.071</b>		0.039	0.0095	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Benzo[a]pyrene</b>	<b>0.088</b>		0.039	0.0072	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.066</b>		0.039	0.013	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Dibenz(a,h)anthracene</b>	<b>0.025</b>	J	0.039	0.011	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
<b>Benzo[g,h,i]perylene</b>	<b>0.082</b>		0.039	0.013	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/19/12 06:57	11/23/12 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		30 - 110	11/19/12 06:57	11/23/12 19:41	1
Phenol-d5	79		31 - 110	11/19/12 06:57	11/23/12 19:41	1
Nitrobenzene-d5	68		30 - 115	11/19/12 06:57	11/23/12 19:41	1
2-Fluorobiphenyl	79		30 - 119	11/19/12 06:57	11/23/12 19:41	1
2,4,6-Tribromophenol	131		35 - 137	11/19/12 06:57	11/23/12 19:41	1
Terphenyl-d14	68		36 - 134	11/19/12 06:57	11/23/12 19:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Arsenic</b>	<b>5.9</b>		0.58	0.13	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Barium</b>	<b>120</b>	B	0.58	0.069	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Beryllium</b>	<b>0.89</b>		0.23	0.017	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Boron</b>	<b>5.8</b>		2.9	0.54	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Cadmium</b>	<b>0.28</b>		0.12	0.029	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Calcium</b>	<b>10000</b>	B	12	2.1	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Chromium</b>	<b>18</b>		0.58	0.097	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Cobalt</b>	<b>13</b>		0.29	0.031	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Copper</b>	<b>16</b>		0.58	0.16	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Iron</b>	<b>22000</b>		12	5.0	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Lead</b>	<b>15</b>	B	0.29	0.10	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Magnesium</b>	<b>5100</b>	B	5.8	1.1	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Manganese</b>	<b>790</b>	B	5.8	0.82	mg/Kg	☼	11/08/12 16:30	11/17/12 12:18	10
<b>Nickel</b>	<b>25</b>		0.58	0.13	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Potassium</b>	<b>1200</b>		29	3.3	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Selenium</b>	<b>0.21</b>	J	0.58	0.17	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Sodium</b>	<b>590</b>		58	11	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Thallium</b>	<b>0.21</b>	J	0.58	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Vanadium</b>	<b>18</b>		0.29	0.044	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1
<b>Zinc</b>	<b>46</b>	B	1.2	0.40	mg/Kg	☼	11/08/12 16:30	11/16/12 13:55	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.44</b>	J	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 20:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 20:26	1
<b>Boron</b>	<b>0.30</b>	J	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 20:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 20:26	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-1**

**Lab Sample ID: 500-52120-13**

Date Collected: 11/07/12 09:55

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:26	1
<b>Cobalt</b>	<b>0.0078</b>	<b>J</b>	0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 20:26	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:26	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 20:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 20:26	1
<b>Manganese</b>	<b>5.9</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:26	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:26	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 20:26	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 20:26	1
<b>Zinc</b>	<b>0.038</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/16/12 20:26	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.086</b>		0.025	0.010	mg/L		11/20/12 10:50	11/20/12 22:29	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		11/15/12 15:00	11/17/12 23:02	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:02	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000020	mg/L		11/16/12 13:30	11/19/12 09:31	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.019</b>	<b>J</b>	0.020	0.0078	mg/Kg	☼	11/16/12 15:00	11/19/12 11:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.79</b>		0.200	0.200	SU			11/12/12 10:21	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-2**

**Lab Sample ID: 500-52120-14**

Date Collected: 11/07/12 10:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 88.7

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0060		0.0045	0.0019	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Benzene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Bromomethane	<0.0045		0.0045	0.0013	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Carbon tetrachloride	<0.0045		0.0045	0.00081	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Chlorobenzene	<0.0045		0.0045	0.00045	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Chloroform	<0.0045		0.0045	0.00051	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Chloromethane	<0.0045		0.0045	0.00094	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00063	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,1-Dichloroethene	<0.0045		0.0045	0.00072	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Ethylbenzene	<0.0045		0.0045	0.00090	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00090	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Tetrachloroethene	<0.0045		0.0045	0.00068	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Toluene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00061	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00080	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00061	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Vinyl chloride	<0.0045		0.0045	0.00094	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/07/12 10:00	11/13/12 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		76 - 120	11/07/12 10:00	11/13/12 18:37	1
Dibromofluoromethane	93		73 - 122	11/07/12 10:00	11/13/12 18:37	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/07/12 10:00	11/13/12 18:37	1
Toluene-d8 (Surr)	100		72 - 122	11/07/12 10:00	11/13/12 18:37	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-2**

**Lab Sample ID: 500-52120-14**

**Date Collected: 11/07/12 10:00**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 88.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Hexachlorobutadiene	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
4-Nitroaniline	<0.37		0.37	0.075	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Diethyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.089	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Di-n-butyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
<b>Fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.037	0.015	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.037	0.013	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
<b>Benzo[a]anthracene</b>	<b>0.010</b>	<b>J</b>	0.037	0.0077	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-2**

**Lab Sample ID: 500-52120-14**

Date Collected: 11/07/12 10:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 88.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.037	0.0071	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
<b>Benzo[k]fluoranthene</b>	<b>0.010</b>	<b>J</b>	0.037	0.0088	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/19/12 06:57	11/23/12 20:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	66		30 - 110				11/19/12 06:57	11/23/12 20:00	1
Phenol-d5	68		31 - 110				11/19/12 06:57	11/23/12 20:00	1
Nitrobenzene-d5	59		30 - 115				11/19/12 06:57	11/23/12 20:00	1
2-Fluorobiphenyl	71		30 - 119				11/19/12 06:57	11/23/12 20:00	1
2,4,6-Tribromophenol	121		35 - 137				11/19/12 06:57	11/23/12 20:00	1
Terphenyl-d14	64		36 - 134				11/19/12 06:57	11/23/12 20:00	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Arsenic</b>	<b>3.3</b>		0.53	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Barium</b>	<b>28</b>	<b>B</b>	0.53	0.063	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Beryllium</b>	<b>0.33</b>		0.21	0.015	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Boron</b>	<b>3.6</b>		2.6	0.49	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Cadmium</b>	<b>0.13</b>		0.11	0.026	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Calcium</b>	<b>15000</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Chromium</b>	<b>7.2</b>		0.53	0.088	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Cobalt</b>	<b>2.8</b>		0.26	0.028	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Copper</b>	<b>13</b>		0.53	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Iron</b>	<b>13000</b>		11	4.6	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Lead</b>	<b>8.9</b>	<b>B</b>	0.26	0.091	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Magnesium</b>	<b>9600</b>	<b>B</b>	5.3	1.0	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Manganese</b>	<b>270</b>	<b>B</b>	0.53	0.074	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Nickel</b>	<b>8.2</b>		0.53	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Potassium</b>	<b>560</b>		26	3.0	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
Silver	<0.26		0.26	0.032	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Sodium</b>	<b>160</b>		53	9.7	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Vanadium</b>	<b>11</b>		0.26	0.040	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1
<b>Zinc</b>	<b>23</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	11/08/12 16:30	11/16/12 14:02	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 20:32	1
<b>Boron</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 20:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 20:32	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-21-B02-2**

**Lab Sample ID: 500-52120-14**

Date Collected: 11/07/12 10:00

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:32	1
<b>Cobalt</b>	<b>0.0065</b>	<b>J</b>	0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 20:32	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:32	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 20:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 20:32	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:32	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/16/12 20:32	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 20:32	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 20:32	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 20:32	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		11/15/12 15:00	11/17/12 23:03	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:03	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		11/16/12 13:30	11/19/12 09:33	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.010</b>	<b>J</b>	0.018	0.0067	mg/Kg	☼	11/16/12 15:00	11/19/12 11:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.82</b>		0.200	0.200	SU			11/12/12 10:23	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
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	MS or MSD exceeds the control limits
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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> IL 30 <b>Project No.:</b> IDOT2011-DS3 <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 4																					
<b>Special Instructions:</b> See Table 2 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Sampler:</b> MJN		<b>Sample Temp:</b> 500-52120		<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	ANALYSES																						
13	2034A-21-B02-1	11-7-12	9:55	Soil	VOCs	X	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Waste Characterization</td><td></td></tr> <tr><td>% Solids</td><td>X</td></tr> <tr><td>PH</td><td>X</td></tr> <tr><td>TCLP/SPLP/Leachate Metals</td><td>X</td></tr> <tr><td>Total Metals</td><td>X</td></tr> <tr><td>PCBs</td><td></td></tr> <tr><td>Pesticides</td><td></td></tr> <tr><td>PNAs</td><td></td></tr> <tr><td>BETX &amp; MTBE</td><td></td></tr> <tr><td>SVOCs</td><td>X</td></tr> </table>	Waste Characterization		% Solids	X	PH	X	TCLP/SPLP/Leachate Metals	X	Total Metals	X	PCBs		Pesticides		PNAs		BETX & MTBE		SVOCs	X
Waste Characterization																											
% Solids	X																										
PH	X																										
TCLP/SPLP/Leachate Metals	X																										
Total Metals	X																										
PCBs																											
Pesticides																											
PNAs																											
BETX & MTBE																											
SVOCs	X																										
14	2034A-21-B02-2		10:00																								
15	2034A-21-B01-1		10:05																								
16	2034A-21-B01-2		10:10																								
17	2034A-21-B01-1 DUF		10:15																								
18	2034A-22-B01-1		11:40																								
19	2034A-22-B01-2		11:45																								
20	2034A-22-B01-1 DUF		11:50																								
21	2034A-22-B02-1		11:55																								
22	2034A-22-B02-2		12:00																								
23	2034A-24-B22-1		12:40																								
24	2034A-24-B22-2		12:45																								
Relinquished by: <i>[Signature]</i>		Date/Time: 11/7/12 15:18		Received by: <i>[Signature]</i>		Date/Time: 11/7/12 15:18																					
Relinquished by: <i>[Signature]</i>		Date/Time: 11/7/12 1550		Received by: <i>[Signature]</i>		Date/Time: 11/8/12 0700																					
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: 500-52177-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 8:25:23 AM

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 Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-1**

**Lab Sample ID: 500-52177-7**

Date Collected: 11/08/12 08:00

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Bromodichloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Dibromochloromethane	<0.0053		0.0053	0.00093	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00073	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/08/12 08:00	11/14/12 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		76 - 120	11/08/12 08:00	11/14/12 15:14	1
Dibromofluoromethane	97		73 - 122	11/08/12 08:00	11/14/12 15:14	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/08/12 08:00	11/14/12 15:14	1
Toluene-d8 (Surr)	93		72 - 122	11/08/12 08:00	11/14/12 15:14	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-1**

**Lab Sample ID: 500-52177-7**

**Date Collected: 11/08/12 08:00**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 84.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.051	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.092	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Anthracene	<0.037	*	0.037	0.0089	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-1**

**Lab Sample ID: 500-52177-7**

Date Collected: 11/08/12 08:00

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 84.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Benzo[a]pyrene	<0.037		0.037	0.0069	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/19/12 16:41	11/29/12 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	11/19/12 16:41	11/29/12 01:18	1
Phenol-d5	69		31 - 110	11/19/12 16:41	11/29/12 01:18	1
Nitrobenzene-d5	66		30 - 115	11/19/12 16:41	11/29/12 01:18	1
2-Fluorobiphenyl	70		30 - 119	11/19/12 16:41	11/29/12 01:18	1
2,4,6-Tribromophenol	80		35 - 137	11/19/12 16:41	11/29/12 01:18	1
Terphenyl-d14	78		36 - 134	11/19/12 16:41	11/29/12 01:18	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Arsenic</b>	<b>11</b>		0.59	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Barium</b>	<b>68</b>		0.59	0.070	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Beryllium</b>	<b>0.48</b>		0.23	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Boron</b>	<b>8.1</b>		2.9	0.55	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Cadmium</b>	<b>0.45</b>		0.12	0.029	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Calcium</b>	<b>45000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Chromium</b>	<b>11</b>		0.59	0.098	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Cobalt</b>	<b>7.3</b>		0.29	0.031	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Copper</b>	<b>20</b>		0.59	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Iron</b>	<b>16000</b>		12	5.1	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Lead</b>	<b>20</b>	<b>B</b>	0.29	0.10	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Magnesium</b>	<b>30000</b>	<b>B</b>	5.9	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Manganese</b>	<b>360</b>		0.59	0.083	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Nickel</b>	<b>17</b>		0.59	0.13	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Potassium</b>	<b>1500</b>		29	3.3	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Sodium</b>	<b>390</b>	<b>B</b>	59	11	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Vanadium</b>	<b>16</b>		0.29	0.044	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1
<b>Zinc</b>	<b>38</b>		1.2	0.40	mg/Kg	☼	11/12/12 09:55	11/17/12 12:30	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 16:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 16:18	1
<b>Boron</b>	<b>0.96</b>		0.50	0.050	mg/L		11/16/12 15:30	11/17/12 16:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 16:18	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-1**

**Lab Sample ID: 500-52177-7**

Date Collected: 11/08/12 08:00

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:18	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:18	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 16:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 16:18	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:18	1
<b>Nickel</b>	<b>0.030</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:18	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 16:18	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:18	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 15:30	11/17/12 16:18	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		11/16/12 15:30	11/26/12 12:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:05	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.041</b>		0.019	0.0071	mg/Kg	☼	11/19/12 17:00	11/20/12 10:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.45</b>		0.200	0.200	SU			11/13/12 10:28	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-2**

**Lab Sample ID: 500-52177-8**

Date Collected: 11/08/12 08:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 88.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Bromodichloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Bromomethane	<0.0051		0.0051	0.0016	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Carbon tetrachloride	<0.0051		0.0051	0.00094	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Tetrachloroethene	<0.0051		0.0051	0.00079	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/08/12 08:05	11/14/12 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/08/12 08:05	11/14/12 15:36	1
Dibromofluoromethane	92		73 - 122	11/08/12 08:05	11/14/12 15:36	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/08/12 08:05	11/14/12 15:36	1
Toluene-d8 (Surr)	93		72 - 122	11/08/12 08:05	11/14/12 15:36	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-2**

**Lab Sample ID: 500-52177-8**

Date Collected: 11/08/12 08:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 88.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
4-Chloroaniline	<0.75		0.75	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Hexachlorocyclopentadiene	<0.75		0.75	0.17	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2-Nitroaniline	<0.19		0.19	0.067	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,4-Dinitrophenol	<0.75		0.75	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
4-Nitrophenol	<0.75		0.75	0.20	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Hexachlorobenzene	<0.075		0.075	0.0073	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Pentachlorophenol	<0.75		0.75	0.19	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Anthracene	<0.037	*	0.037	0.0087	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Benzo[a]anthracene	<0.037		0.037	0.0078	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
<b>Chrysene</b>	<b>0.0099</b>	<b>J</b>	0.037	0.0084	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1

TestAmerica Chicago

# Client Sample Results

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Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-2**

**Lab Sample ID: 500-52177-8**

Date Collected: 11/08/12 08:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 88.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
<b>Benzo[b]fluoranthene</b>	<b>0.0096</b>	<b>J</b>	0.037	0.0072	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Benzo[k]fluoranthene	<0.037		0.037	0.0089	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/19/12 16:41	11/29/12 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110	11/19/12 16:41	11/29/12 01:41	1
Phenol-d5	57		31 - 110	11/19/12 16:41	11/29/12 01:41	1
Nitrobenzene-d5	59		30 - 115	11/19/12 16:41	11/29/12 01:41	1
2-Fluorobiphenyl	59		30 - 119	11/19/12 16:41	11/29/12 01:41	1
2,4,6-Tribromophenol	58		35 - 137	11/19/12 16:41	11/29/12 01:41	1
Terphenyl-d14	67		36 - 134	11/19/12 16:41	11/29/12 01:41	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Arsenic</b>	<b>7.5</b>		0.54	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Barium</b>	<b>10</b>		0.54	0.064	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Beryllium</b>	<b>0.32</b>		0.22	0.016	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Boron</b>	<b>5.8</b>		2.7	0.50	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.027	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Calcium</b>	<b>38000</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Chromium</b>	<b>6.0</b>		0.54	0.090	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Cobalt</b>	<b>5.6</b>		0.27	0.028	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Copper</b>	<b>17</b>		0.54	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Iron</b>	<b>10000</b>		11	4.7	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Lead</b>	<b>8.4</b>	<b>B</b>	0.27	0.093	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Magnesium</b>	<b>22000</b>	<b>B</b>	5.4	1.0	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Manganese</b>	<b>290</b>		0.54	0.076	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Nickel</b>	<b>13</b>		0.54	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Potassium</b>	<b>1100</b>		27	3.1	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Sodium</b>	<b>230</b>	<b>B</b>	54	9.9	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Vanadium</b>	<b>9.6</b>		0.27	0.041	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1
<b>Zinc</b>	<b>28</b>		1.1	0.37	mg/Kg	☼	11/12/12 09:55	11/17/12 12:36	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 16:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 16:25	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/16/12 15:30	11/17/12 16:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 16:25	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-21-B04-2**

**Lab Sample ID: 500-52177-8**

Date Collected: 11/08/12 08:05

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:25	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:25	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:25	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 16:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 16:25	1
<b>Manganese</b>	<b>2.6</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:25	1
<b>Nickel</b>	<b>0.050</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 16:25	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 16:25	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 16:25	1
<b>Zinc</b>	<b>0.039 J</b>		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 16:25	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		11/16/12 15:30	11/26/12 13:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 12:14	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.0096 J</b>		0.017	0.0065	mg/Kg	☼	11/19/12 17:00	11/20/12 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.11</b>		0.200	0.200	SU			11/13/12 10:31	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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	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

## 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13





# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>		<b>Laboratory</b>	
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 Name: <u>IL30</u> Project No.: <u>IDOT2011-053</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>5</u> Lab Job No.: <u>500-52177</u> Sample Temp.: <u>(36) (41)</u>	
Sampler: <u>MJN</u>		Matrix Key: W - Water S - Soil SL - Sludge SE - Sediment L - Leachate DW - Drinking Water OL - Oil O - Other	

**Special Instructions:**  
 See Table 2 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 /mg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	2034A-24-B20-1	11-8-12	7:30	Soil	X	X	<del>XXXXXXXXXX</del>				X	X	X	X		0-4'
2	2034A-24-B20-2		7:35													A'-0'
3	2034A-24-B21-1		7:40													0-4'
4	2034A-24-B21-2		7:45													4-8'
5	2034A-18-B07-1		7:50													0-4'
6	2034A-18-B07-2		7:55													4-8'
7	2034A-21-B04-1		8:00													0-5'
8	2034A-21-B04-2		8:05													5-10'
9	2034A-21-B03-1		8:10													0-5'
10	2034A-21-B03-2		8:15													5-10'
11	2034A-18-B02-1		8:20													0-4'
12	2034A-18-B02-2		8:25													4-10'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u></u>	Received by: <u></u>	Date/Time: <u></u>

December 10, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120041

Dear Colleen Grey:

TEKLAB, INC received 4 samples on 12/2/2013 12:20:00 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)



## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120041

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	9
Receiving Check List	10
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120041

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120041

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville





## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120041

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120041-001

Client Sample ID: 2034A-21-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 10:30

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>0.0472</b>	mg/L	1	12/09/2013 16:17	94382



## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.  
**Client Project:** IDOT2011-053  
**Lab ID:** 13120041-002  
**Matrix:** SOLID

**Work Order:** 13120041  
**Report Date:** 10-Dec-13  
**Client Sample ID:** 2034A-21-B02-2  
**Collection Date:** 11/26/2013 10:35

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>0.108</b>	mg/L	1	12/09/2013 16:21	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120041

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120041-003

Client Sample ID: 2034A-21-B04-1

Matrix: SOLID

Collection Date: 11/26/2013 11:25

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	0.0016	0.005		<b>0.018</b>	mg/L	1	12/09/2013 16:24	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120041

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120041-004

Client Sample ID: 2034A-21-B04-2

Matrix: SOLID

Collection Date: 11/26/2013 11:30

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>0.0775</b>	mg/L	1	12/09/2013 16:28	94382





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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21624, 21630 and 21700 Block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.49639 Longitude: -87.52909  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)  
 Latitude: 41.49639 Longitude: -87.52909

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 2034/A-22-B01 AND -B02 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-22. SEE FIGURE 3 AND TABLE 5r 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: 500-52120. TEKLAB WORK ORDER NO.: 13120042.

**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:

3/17/14  
 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
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 2034A-22**

**Commercial**

Sample ID	2034A-22-B01-1	2034A-22-B01-1 DUF	2034A-22-B01-2	2034A-22-B02-1	2034A-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)	0-4	0-4	4-8	0-4	4-8										
Sample Date	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012										
PID	0	0	0	0	0										
Sample pH	8.16	7.33	8.17	8.91	8.75										
Matrix	Soil	Soil	Soil	Soil	Soil										
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>															
Benzo (a) pyrene	ND		0.41	1.2	ND		ND	ND	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: 500-52120-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/26/2012 5:00:35 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 Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1**

**Lab Sample ID: 500-52120-18**

Date Collected: 11/07/12 11:40

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 90.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0031	J	0.0043	0.0018	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Benzene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Bromodichloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Bromoform	<0.0043		0.0043	0.00098	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Bromomethane	<0.0043		0.0043	0.0013	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Carbon disulfide	<0.0043		0.0043	0.00064	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Carbon tetrachloride	<0.0043		0.0043	0.00078	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Chlorobenzene	<0.0043		0.0043	0.00043	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Chloroethane	<0.0043		0.0043	0.0012	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Chloroform	<0.0043		0.0043	0.00049	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Chloromethane	<0.0043		0.0043	0.00090	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00056	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Dibromochloromethane	<0.0043		0.0043	0.00074	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,1-Dichloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,1-Dichloroethene	<0.0043		0.0043	0.00069	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,2-Dichloropropane	<0.0043		0.0043	0.00065	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.00056	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Ethylbenzene	<0.0043		0.0043	0.00086	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
2-Hexanone	<0.0043		0.0043	0.0012	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Methylene Chloride	<0.0043		0.0043	0.0012	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0011	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Methyl tert-butyl ether	<0.0043		0.0043	0.00071	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Styrene	<0.0043		0.0043	0.00056	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,1,1,2-Tetrachloroethane	<0.0043		0.0043	0.00086	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Tetrachloroethene	<0.0043		0.0043	0.00065	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Toluene	<0.0043		0.0043	0.00060	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.00059	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.00077	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00058	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Trichloroethene	<0.0043		0.0043	0.00070	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Vinyl chloride	<0.0043		0.0043	0.00090	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1
Xylenes, Total	<0.0085		0.0085	0.00039	mg/Kg	☼	11/07/12 11:40	11/14/12 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/07/12 11:40	11/14/12 06:29	1
Dibromofluoromethane	98		73 - 122	11/07/12 11:40	11/14/12 06:29	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/07/12 11:40	11/14/12 06:29	1
Toluene-d8 (Surr)	99		72 - 122	11/07/12 11:40	11/14/12 06:29	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<7.3		7.3	2.3	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Bis(2-chloroethyl)ether	<7.3		7.3	2.1	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
1,3-Dichlorobenzene	<7.3		7.3	1.5	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
1,4-Dichlorobenzene	<7.3		7.3	1.5	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
1,2-Dichlorobenzene	<7.3		7.3	1.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1**

**Lab Sample ID: 500-52120-18**

Date Collected: 11/07/12 11:40

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 90.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<7.3		7.3	1.9	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,2'-oxybis[1-chloropropane]	<7.3		7.3	1.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
N-Nitrosodi-n-propylamine	<7.3		7.3	1.8	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Hexachloroethane	<7.3		7.3	1.5	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2-Chlorophenol	<7.3		7.3	2.1	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Nitrobenzene	<1.4		1.4	0.45	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Bis(2-chloroethoxy)methane	<7.3		7.3	1.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
1,2,4-Trichlorobenzene	<7.3		7.3	1.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Isophorone	<7.3		7.3	1.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,4-Dimethylphenol	<14		14	4.5	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Hexachlorobutadiene	<7.3		7.3	1.9	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Naphthalene	<1.4		1.4	0.28	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,4-Dichlorophenol	<14		14	4.4	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
4-Chloroaniline	<29		29	4.4	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,4,6-Trichlorophenol	<14		14	1.8	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,4,5-Trichlorophenol	<14		14	4.1	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Hexachlorocyclopentadiene	<29		29	6.7	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2-Methylnaphthalene	<7.3		7.3	1.9	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2-Nitroaniline	<7.3		7.3	2.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2-Chloronaphthalene	<7.3		7.3	1.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
4-Chloro-3-methylphenol	<14		14	6.9	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,6-Dinitrotoluene	<7.3		7.3	1.7	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2-Nitrophenol	<14		14	2.3	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
3-Nitroaniline	<14		14	2.8	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Dimethyl phthalate	<7.3		7.3	1.8	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,4-Dinitrophenol	<29		29	7.4	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Acenaphthylene	<1.4		1.4	0.33	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
2,4-Dinitrotoluene	<7.3		7.3	2.2	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Acenaphthene	<1.4		1.4	0.43	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Dibenzofuran	<7.3		7.3	1.7	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
4-Nitrophenol	<29		29	7.8	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Fluorene	<1.4		1.4	0.33	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
4-Nitroaniline	<14		14	3.0	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
4-Bromophenyl phenyl ether	<7.3		7.3	1.6	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Hexachlorobenzene	<2.9		2.9	0.29	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Diethyl phthalate	<7.3		7.3	2.4	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
4-Chlorophenyl phenyl ether	<7.3		7.3	2.3	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Pentachlorophenol	<29		29	7.4	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
N-Nitrosodiphenylamine	<7.3		7.3	2.0	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
4,6-Dinitro-2-methylphenol	<14		14	3.5	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Phenanthrene	<1.4		1.4	0.61	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Anthracene	<1.4		1.4	0.34	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Carbazole	<7.3		7.3	2.0	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Di-n-butyl phthalate	<7.3		7.3	1.8	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
<b>Fluoranthene</b>	<b>1.3</b>	<b>J</b>	1.4	0.59	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
<b>Pyrene</b>	<b>0.95</b>	<b>J</b>	1.4	0.52	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Butyl benzyl phthalate	<7.3		7.3	1.8	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
<b>Benzo[a]anthracene</b>	<b>0.88</b>	<b>J</b>	1.4	0.30	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Chrysene	<1.4		1.4	0.33	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1**

**Lab Sample ID: 500-52120-18**

Date Collected: 11/07/12 11:40

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 90.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<7.3		7.3	1.2	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Bis(2-ethylhexyl) phthalate	<7.3		7.3	1.9	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Di-n-octyl phthalate	<7.3		7.3	2.9	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
<b>Benzo[b]fluoranthene</b>	<b>0.80</b>	<b>J</b>	1.4	0.28	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
<b>Benzo[k]fluoranthene</b>	<b>0.73</b>	<b>J</b>	1.4	0.35	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Benzo[a]pyrene	<1.4		1.4	0.26	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Indeno[1,2,3-cd]pyrene	<1.4		1.4	0.49	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Dibenz(a,h)anthracene	<1.4		1.4	0.40	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
Benzo[g,h,i]perylene	<1.4		1.4	0.49	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10
3 & 4 Methylphenol	<7.3		7.3	2.7	mg/Kg	☼	11/19/12 06:57	11/23/12 21:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		30 - 110	11/19/12 06:57	11/23/12 21:19	10
Phenol-d5	93		31 - 110	11/19/12 06:57	11/23/12 21:19	10
Nitrobenzene-d5	66		30 - 115	11/19/12 06:57	11/23/12 21:19	10
2-Fluorobiphenyl	124	X	30 - 119	11/19/12 06:57	11/23/12 21:19	10
2,4,6-Tribromophenol	176	X	35 - 137	11/19/12 06:57	11/23/12 21:19	10
Terphenyl-d14	107		36 - 134	11/19/12 06:57	11/23/12 21:19	10

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Arsenic</b>	<b>5.2</b>		0.53	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Barium</b>	<b>61</b>	<b>B</b>	0.53	0.064	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Beryllium</b>	<b>0.64</b>		0.21	0.016	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Boron</b>	<b>4.7</b>		2.7	0.50	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Cadmium</b>	<b>0.30</b>		0.11	0.026	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Calcium</b>	<b>31000</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Chromium</b>	<b>11</b>		0.53	0.089	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Cobalt</b>	<b>4.7</b>		0.27	0.028	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Copper</b>	<b>14</b>		0.53	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Iron</b>	<b>14000</b>		11	4.6	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Lead</b>	<b>12</b>	<b>B</b>	0.27	0.092	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Magnesium</b>	<b>19000</b>	<b>B</b>	5.3	1.0	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Manganese</b>	<b>280</b>	<b>B</b>	0.53	0.075	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Nickel</b>	<b>12</b>		0.53	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Potassium</b>	<b>1300</b>		27	3.0	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Sodium</b>	<b>460</b>		53	9.8	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Thallium</b>	<b>0.20</b>	<b>J</b>	0.53	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Vanadium</b>	<b>16</b>		0.27	0.041	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1
<b>Zinc</b>	<b>38</b>	<b>B</b>	1.1	0.37	mg/Kg	☼	11/08/12 16:30	11/16/12 14:41	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 21:12	1
<b>Boron</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 21:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 21:12	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1**

**Lab Sample ID: 500-52120-18**

Date Collected: 11/07/12 11:40

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:12	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:12	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 21:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 21:12	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:12	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:12	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 21:12	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:12	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/16/12 21:12	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		11/15/12 15:00	11/17/12 23:06	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:06	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		11/16/12 13:30	11/19/12 09:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.012</b>	<b>J</b>	0.016	0.0061	mg/Kg	☼	11/16/12 15:00	11/19/12 11:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.16</b>		0.200	0.200	SU			11/12/12 10:33	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-2**

**Lab Sample ID: 500-52120-19**

Date Collected: 11/07/12 11:45

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 85.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0075		0.0044	0.0019	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Carbon disulfide	<0.0044		0.0044	0.00065	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Chlorobenzene	<0.0044		0.0044	0.00044	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Chloroform	<0.0044		0.0044	0.00050	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Dibromochloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,1-Dichloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00057	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0011	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00072	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Styrene	<0.0044		0.0044	0.00057	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Toluene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Trichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	11/07/12 11:45	11/14/12 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/07/12 11:45	11/14/12 06:52	1
Dibromofluoromethane	88		73 - 122	11/07/12 11:45	11/14/12 06:52	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	11/07/12 11:45	11/14/12 06:52	1
Toluene-d8 (Surr)	93		72 - 122	11/07/12 11:45	11/14/12 06:52	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-2**

**Lab Sample ID: 500-52120-19**

**Date Collected: 11/07/12 11:45**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 85.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-2**

**Lab Sample ID: 500-52120-19**

Date Collected: 11/07/12 11:45

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 85.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	11/19/12 06:57	11/23/12 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		30 - 110	11/19/12 06:57	11/23/12 21:38	1
Phenol-d5	65		31 - 110	11/19/12 06:57	11/23/12 21:38	1
Nitrobenzene-d5	57		30 - 115	11/19/12 06:57	11/23/12 21:38	1
2-Fluorobiphenyl	73		30 - 119	11/19/12 06:57	11/23/12 21:38	1
2,4,6-Tribromophenol	135		35 - 137	11/19/12 06:57	11/23/12 21:38	1
Terphenyl-d14	65		36 - 134	11/19/12 06:57	11/23/12 21:38	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Arsenic</b>	<b>2.0</b>		0.53	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Barium</b>	<b>7.5 B</b>		0.53	0.064	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Beryllium</b>	<b>0.25</b>		0.21	0.016	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Boron</b>	<b>1.5 J</b>		2.7	0.50	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
Cadmium	<0.11		0.11	0.026	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Calcium</b>	<b>1700 B</b>		11	1.9	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Chromium</b>	<b>5.6</b>		0.53	0.089	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Cobalt</b>	<b>1.9</b>		0.27	0.028	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Copper</b>	<b>4.1</b>		0.53	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Iron</b>	<b>5600</b>		11	4.6	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Lead</b>	<b>5.6 B</b>		0.27	0.092	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Magnesium</b>	<b>1500 B</b>		5.3	1.0	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Manganese</b>	<b>38 B</b>		0.53	0.075	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Nickel</b>	<b>5.4</b>		0.53	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Potassium</b>	<b>310</b>		27	3.0	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Sodium</b>	<b>130</b>		53	9.8	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Vanadium</b>	<b>7.2</b>		0.27	0.041	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1
<b>Zinc</b>	<b>17 B</b>		1.1	0.37	mg/Kg	☼	11/08/12 16:30	11/16/12 14:47	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.17 J</b>		0.50	0.010	mg/L		11/15/12 15:00	11/16/12 21:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 21:18	1
<b>Boron</b>	<b>0.15 J</b>		0.50	0.050	mg/L		11/15/12 15:00	11/16/12 21:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 21:18	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-2**

**Lab Sample ID: 500-52120-19**

Date Collected: 11/07/12 11:45

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:18	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:18	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 21:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 21:18	1
<b>Manganese</b>	<b>0.35</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:18	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:18	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 21:18	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:18	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 21:18	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		11/15/12 15:00	11/17/12 23:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:07	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		11/16/12 13:30	11/19/12 09:45	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0066	mg/Kg	☼	11/16/12 15:00	11/19/12 11:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			11/12/12 10:35	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1DUP**

**Lab Sample ID: 500-52120-20**

Date Collected: 11/07/12 11:50

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 83.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0048	0.0021	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Ethylbenzene	<0.0048		0.0048	0.00097	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00097	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1
Xylenes, Total	<0.0096		0.0096	0.00044	mg/Kg	☼	11/07/12 11:50	11/14/12 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		76 - 120	11/07/12 11:50	11/14/12 07:15	1
Dibromofluoromethane	98		73 - 122	11/07/12 11:50	11/14/12 07:15	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/07/12 11:50	11/14/12 07:15	1
Toluene-d8 (Surr)	100		72 - 122	11/07/12 11:50	11/14/12 07:15	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.95		0.95	0.30	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Bis(2-chloroethyl)ether	<0.95		0.95	0.28	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
1,3-Dichlorobenzene	<0.95		0.95	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
1,4-Dichlorobenzene	<0.95		0.95	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
1,2-Dichlorobenzene	<0.95		0.95	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1DUP**

**Lab Sample ID: 500-52120-20**

Date Collected: 11/07/12 11:50

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 83.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.95		0.95	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,2'-oxybis[1-chloropropane]	<0.95		0.95	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
N-Nitrosodi-n-propylamine	<0.95		0.95	0.24	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Hexachloroethane	<0.95		0.95	0.20	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2-Chlorophenol	<0.95		0.95	0.27	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Nitrobenzene	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Bis(2-chloroethoxy)methane	<0.95		0.95	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
1,2,4-Trichlorobenzene	<0.95		0.95	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Isophorone	<0.95		0.95	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,4-Dimethylphenol	<1.9		1.9	0.59	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Hexachlorobutadiene	<0.95		0.95	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Naphthalene	<0.19		0.19	0.036	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,4-Dichlorophenol	<1.9		1.9	0.57	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
4-Chloroaniline	<3.8		3.8	0.57	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,4,6-Trichlorophenol	<1.9		1.9	0.24	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,4,5-Trichlorophenol	<1.9		1.9	0.54	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Hexachlorocyclopentadiene	<3.8		3.8	0.88	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2-Methylnaphthalene	<0.95		0.95	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2-Nitroaniline	<0.95		0.95	0.34	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2-Chloronaphthalene	<0.95		0.95	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
4-Chloro-3-methylphenol	<1.9		1.9	0.90	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,6-Dinitrotoluene	<0.95		0.95	0.22	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2-Nitrophenol	<1.9		1.9	0.30	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
3-Nitroaniline	<1.9		1.9	0.36	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Dimethyl phthalate	<0.95		0.95	0.24	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,4-Dinitrophenol	<3.8		3.8	0.97	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Acenaphthylene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
2,4-Dinitrotoluene	<0.95		0.95	0.29	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Acenaphthene	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Dibenzofuran	<0.95		0.95	0.23	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
4-Nitrophenol	<3.8		3.8	1.0	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Fluorene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
4-Nitroaniline	<1.9		1.9	0.39	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
4-Bromophenyl phenyl ether	<0.95		0.95	0.21	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Hexachlorobenzene	<0.38		0.38	0.037	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Diethyl phthalate	<0.95		0.95	0.32	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
4-Chlorophenyl phenyl ether	<0.95		0.95	0.30	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Pentachlorophenol	<3.8		3.8	0.96	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
N-Nitrosodiphenylamine	<0.95		0.95	0.26	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	0.46	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Phenanthrene</b>	<b>0.36</b>		0.19	0.079	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Anthracene</b>	<b>0.095 J</b>		0.19	0.044	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Carbazole	<0.95		0.95	0.27	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Di-n-butyl phthalate	<0.95		0.95	0.24	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Fluoranthene</b>	<b>0.76</b>		0.19	0.077	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Pyrene</b>	<b>0.45</b>		0.19	0.068	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Butyl benzyl phthalate	<0.95		0.95	0.24	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Benzo[a]anthracene</b>	<b>0.19</b>		0.19	0.040	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Chrysene</b>	<b>0.37</b>		0.19	0.043	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1DUP**

**Lab Sample ID: 500-52120-20**

Date Collected: 11/07/12 11:50

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 83.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.95		0.95	0.16	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Bis(2-ethylhexyl) phthalate	<0.95		0.95	0.25	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Di-n-octyl phthalate	<0.95		0.95	0.38	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Benzo[b]fluoranthene</b>	<b>0.35</b>		0.19	0.037	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Benzo[k]fluoranthene</b>	<b>0.27</b>		0.19	0.045	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Benzo[a]pyrene</b>	<b>0.41</b>		0.19	0.034	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.29</b>		0.19	0.064	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
Dibenz(a,h)anthracene	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Benzo[g,h,i]perylene</b>	<b>0.24</b>		0.19	0.064	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
3 & 4 Methylphenol	<0.95		0.95	0.36	mg/Kg	☼	11/19/12 06:57	11/23/12 21:58	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	81		30 - 110				11/19/12 06:57	11/23/12 21:58	5
Phenol-d5	83		31 - 110				11/19/12 06:57	11/23/12 21:58	5
Nitrobenzene-d5	69		30 - 115				11/19/12 06:57	11/23/12 21:58	5
2-Fluorobiphenyl	92		30 - 119				11/19/12 06:57	11/23/12 21:58	5
2,4,6-Tribromophenol	132		35 - 137				11/19/12 06:57	11/23/12 21:58	5
Terphenyl-d14	75		36 - 134				11/19/12 06:57	11/23/12 21:58	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Arsenic</b>	<b>6.9</b>		0.55	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Barium</b>	<b>49</b>	<b>B</b>	0.55	0.066	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Beryllium</b>	<b>0.48</b>		0.22	0.016	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Boron</b>	<b>7.8</b>		2.8	0.51	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Cadmium</b>	<b>0.44</b>		0.11	0.027	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Calcium</b>	<b>110000</b>	<b>B</b>	110	19	mg/Kg	☼	11/08/12 16:30	11/17/12 12:30	10
<b>Chromium</b>	<b>7.3</b>		0.55	0.092	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Cobalt</b>	<b>4.6</b>		0.28	0.029	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Copper</b>	<b>11</b>		0.55	0.15	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Iron</b>	<b>11000</b>		11	4.8	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Lead</b>	<b>13</b>	<b>B</b>	0.28	0.095	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Magnesium</b>	<b>50000</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Manganese</b>	<b>490</b>	<b>B</b>	0.55	0.078	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Nickel</b>	<b>9.8</b>		0.55	0.12	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Potassium</b>	<b>640</b>		28	3.1	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Sodium</b>	<b>380</b>		55	10	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Vanadium</b>	<b>11</b>		0.28	0.042	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1
<b>Zinc</b>	<b>35</b>	<b>B</b>	1.1	0.38	mg/Kg	☼	11/08/12 16:30	11/16/12 14:53	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 21:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 21:24	1
<b>Boron</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 21:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 21:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B01-1DUP**

**Lab Sample ID: 500-52120-20**

Date Collected: 11/07/12 11:50

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:24	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:24	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:24	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 21:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 21:24	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:24	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:24	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 21:24	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:24	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 21:24	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		11/15/12 15:00	11/17/12 23:08	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:08	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		11/16/12 13:30	11/19/12 09:47	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.023</b>		0.017	0.0066	mg/Kg	☼	11/16/12 15:00	11/19/12 11:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.33</b>		0.200	0.200	SU			11/12/12 10:38	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-1**

**Lab Sample ID: 500-52120-21**

Date Collected: 11/07/12 11:55

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 93.7

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0075		0.0051	0.0022	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Methylene Chloride	<0.0051		0.0051	0.0014	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/07/12 11:55	11/14/12 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/07/12 11:55	11/14/12 07:38	1
Dibromofluoromethane	98		73 - 122	11/07/12 11:55	11/14/12 07:38	1
1,2-Dichloroethane-d4 (Surr)	84		74 - 123	11/07/12 11:55	11/14/12 07:38	1
Toluene-d8 (Surr)	96		72 - 122	11/07/12 11:55	11/14/12 07:38	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<3.5		3.5	1.1	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Bis(2-chloroethyl)ether	<3.5		3.5	1.0	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
1,3-Dichlorobenzene	<3.5		3.5	0.74	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
1,4-Dichlorobenzene	<3.5		3.5	0.74	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
1,2-Dichlorobenzene	<3.5		3.5	0.77	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-1**

**Lab Sample ID: 500-52120-21**

Date Collected: 11/07/12 11:55

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 93.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<3.5		3.5	0.93	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,2'-oxybis[1-chloropropane]	<3.5		3.5	0.78	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
N-Nitrosodi-n-propylamine	<3.5		3.5	0.89	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Hexachloroethane	<3.5		3.5	0.75	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2-Chlorophenol	<3.5		3.5	1.0	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Nitrobenzene	<0.70		0.70	0.22	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Bis(2-chloroethoxy)methane	<3.5		3.5	0.77	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
1,2,4-Trichlorobenzene	<3.5		3.5	0.79	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Isophorone	<3.5		3.5	0.78	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,4-Dimethylphenol	<7.0		7.0	2.2	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Hexachlorobutadiene	<3.5		3.5	0.92	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Naphthalene	<0.70		0.70	0.13	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,4-Dichlorophenol	<7.0		7.0	2.1	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
4-Chloroaniline	<14		14	2.1	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,4,6-Trichlorophenol	<7.0		7.0	0.88	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,4,5-Trichlorophenol	<7.0		7.0	2.0	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Hexachlorocyclopentadiene	<14		14	3.2	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2-Methylnaphthalene	<3.5		3.5	0.91	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2-Nitroaniline	<3.5 *		3.5	1.3	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2-Chloronaphthalene	<3.5		3.5	0.79	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
4-Chloro-3-methylphenol	<7.0		7.0	3.4	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,6-Dinitrotoluene	<3.5		3.5	0.83	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2-Nitrophenol	<7.0		7.0	1.1	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
3-Nitroaniline	<7.0		7.0	1.4	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Dimethyl phthalate	<3.5		3.5	0.87	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,4-Dinitrophenol	<14		14	3.6	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Acenaphthylene	<0.70		0.70	0.16	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
2,4-Dinitrotoluene	<3.5		3.5	1.1	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Acenaphthene	<0.70		0.70	0.21	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Dibenzofuran	<3.5		3.5	0.84	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
4-Nitrophenol	<14		14	3.8	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Fluorene	<0.70		0.70	0.16	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
4-Nitroaniline	<7.0		7.0	1.4	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
4-Bromophenyl phenyl ether	<3.5		3.5	0.78	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Hexachlorobenzene	<1.4		1.4	0.14	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Diethyl phthalate	<3.5		3.5	1.2	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
4-Chlorophenyl phenyl ether	<3.5		3.5	1.1	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Pentachlorophenol	<14		14	3.6	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
N-Nitrosodiphenylamine	<3.5		3.5	0.95	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
4,6-Dinitro-2-methylphenol	<7.0		7.0	1.7	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Phenanthrene	<0.70		0.70	0.29	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Anthracene	<0.70		0.70	0.16	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Carbazole	<3.5		3.5	0.98	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Di-n-butyl phthalate	<3.5		3.5	0.88	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Fluoranthene	<0.70		0.70	0.29	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Pyrene	<0.70		0.70	0.25	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Butyl benzyl phthalate	<3.5		3.5	0.88	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Benzo[a]anthracene	<0.70		0.70	0.15	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Chrysene	<0.70		0.70	0.16	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-1**

**Lab Sample ID: 500-52120-21**

Date Collected: 11/07/12 11:55

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 93.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<3.5		3.5	0.58	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Bis(2-ethylhexyl) phthalate	<3.5		3.5	0.93	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Di-n-octyl phthalate	<3.5		3.5	1.4	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
<b>Benzo[b]fluoranthene</b>	<b>0.32</b>	<b>J</b>	0.70	0.14	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
<b>Benzo[k]fluoranthene</b>	<b>0.29</b>	<b>J</b>	0.70	0.17	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Benzo[a]pyrene	<0.70		0.70	0.13	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Indeno[1,2,3-cd]pyrene	<0.70		0.70	0.24	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Dibenz(a,h)anthracene	<0.70		0.70	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
Benzo[g,h,i]perylene	<0.70		0.70	0.24	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10
3 & 4 Methylphenol	<3.5		3.5	1.3	mg/Kg	☼	11/16/12 07:11	11/23/12 22:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		30 - 110	11/16/12 07:11	11/23/12 22:17	10
Phenol-d5	70		31 - 110	11/16/12 07:11	11/23/12 22:17	10
Nitrobenzene-d5	65		30 - 115	11/16/12 07:11	11/23/12 22:17	10
2-Fluorobiphenyl	100		30 - 119	11/16/12 07:11	11/23/12 22:17	10
2,4,6-Tribromophenol	140	X	35 - 137	11/16/12 07:11	11/23/12 22:17	10
Terphenyl-d14	84		36 - 134	11/16/12 07:11	11/23/12 22:17	10

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.1		5.1	0.68	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Arsenic</b>	<b>1.5</b>	<b>J</b>	2.6	0.56	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Barium</b>	<b>18</b>	<b>B</b>	2.6	0.31	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Beryllium</b>	<b>0.31</b>	<b>J</b>	1.0	0.075	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Boron</b>	<b>7.9</b>	<b>J</b>	13	2.4	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Cadmium</b>	<b>0.46</b>	<b>J</b>	0.51	0.13	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Calcium</b>	<b>150000</b>	<b>B</b>	100	18	mg/Kg	☼	11/09/12 12:00	11/15/12 10:00	10
<b>Chromium</b>	<b>5.3</b>		2.6	0.43	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Cobalt</b>	<b>2.1</b>		1.3	0.13	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Copper</b>	<b>6.6</b>		2.6	0.70	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Iron</b>	<b>4400</b>		51	22	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Lead</b>	<b>52</b>		1.3	0.44	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Magnesium</b>	<b>98000</b>	<b>B</b>	26	5.0	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Manganese</b>	<b>240</b>		2.6	0.36	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Nickel</b>	<b>7.3</b>		2.6	0.56	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Potassium</b>	<b>230</b>		130	15	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Selenium</b>	<b>1.0</b>	<b>J</b>	2.6	0.74	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
Silver	<1.3		1.3	0.15	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Sodium</b>	<b>380</b>		260	47	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
Thallium	<2.6		2.6	0.66	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Vanadium</b>	<b>6.9</b>		1.3	0.19	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5
<b>Zinc</b>	<b>29</b>		5.1	1.8	mg/Kg	☼	11/09/12 12:00	11/15/12 01:56	5

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 21:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 21:47	1
<b>Boron</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 21:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 21:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-1**

**Lab Sample ID: 500-52120-21**

Date Collected: 11/07/12 11:55

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:47	1
<b>Cobalt</b>	<b>0.0061</b>	<b>J</b>	0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:47	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:47	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 21:47	1
<b>Lead</b>	<b>0.030</b>		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 21:47	1
<b>Manganese</b>	<b>1.9</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:47	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:47	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 21:47	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:47	1
<b>Zinc</b>	<b>0.070</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/16/12 21:47	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		11/15/12 15:00	11/17/12 23:12	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:12	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		11/16/12 13:30	11/19/12 09:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.024</b>		0.017	0.0064	mg/Kg	☼	11/15/12 16:00	11/16/12 11:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.91</b>		0.200	0.200	SU			11/12/12 10:42	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-2**

**Lab Sample ID: 500-52120-22**

Date Collected: 11/07/12 12:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 82.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0099		0.0044	0.0019	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Bromodichloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/07/12 12:00	11/14/12 08:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		76 - 120	11/07/12 12:00	11/14/12 08:01	1
Dibromofluoromethane	91		73 - 122	11/07/12 12:00	11/14/12 08:01	1
1,2-Dichloroethane-d4 (Surr)	85		74 - 123	11/07/12 12:00	11/14/12 08:01	1
Toluene-d8 (Surr)	95		72 - 122	11/07/12 12:00	11/14/12 08:01	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
1,2-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-2**

**Lab Sample ID: 500-52120-22**

Date Collected: 11/07/12 12:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 82.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Naphthalene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2-Nitroaniline	<0.20	*	0.20	0.070	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Fluorene</b>	<b>0.010</b>	<b>J</b>	0.039	0.0088	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Phenanthrene</b>	<b>0.039</b>		0.039	0.016	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Fluoranthene</b>	<b>0.035</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Pyrene</b>	<b>0.026</b>	<b>J</b>	0.039	0.014	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Benzo[a]anthracene</b>	<b>0.0084</b>	<b>J</b>	0.039	0.0081	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Chrysene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0088	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-2**

**Lab Sample ID: 500-52120-22**

Date Collected: 11/07/12 12:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 82.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Benzo[b]fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0075	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Benzo[k]fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0093	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Benzo[a]pyrene	<0.039		0.039	0.0071	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
<b>Benzo[g,h,i]perylene</b>	<b>0.016</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/16/12 07:11	11/23/12 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	46		30 - 110				11/16/12 07:11	11/23/12 22:37	1
Phenol-d5	62		31 - 110				11/16/12 07:11	11/23/12 22:37	1
Nitrobenzene-d5	48		30 - 115				11/16/12 07:11	11/23/12 22:37	1
2-Fluorobiphenyl	64		30 - 119				11/16/12 07:11	11/23/12 22:37	1
2,4,6-Tribromophenol	123		35 - 137				11/16/12 07:11	11/23/12 22:37	1
Terphenyl-d14	61		36 - 134				11/16/12 07:11	11/23/12 22:37	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Arsenic</b>	<b>3.8</b>		0.59	0.13	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Barium</b>	<b>27</b>	<b>B</b>	0.59	0.071	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Beryllium</b>	<b>0.35</b>		0.24	0.017	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Boron</b>	<b>2.8</b>	<b>J</b>	3.0	0.55	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Cadmium</b>	<b>0.15</b>		0.12	0.029	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Calcium</b>	<b>19000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Chromium</b>	<b>7.0</b>		0.59	0.099	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Cobalt</b>	<b>2.8</b>		0.30	0.031	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Copper</b>	<b>11</b>		0.59	0.16	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Iron</b>	<b>8300</b>		12	5.1	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Lead</b>	<b>26</b>		0.30	0.10	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Magnesium</b>	<b>11000</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Manganese</b>	<b>120</b>		0.59	0.084	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Nickel</b>	<b>7.5</b>		0.59	0.13	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Potassium</b>	<b>470</b>		30	3.4	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Selenium</b>	<b>0.35</b>	<b>J</b>	0.59	0.17	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Sodium</b>	<b>550</b>		59	11	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Vanadium</b>	<b>10</b>		0.30	0.045	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1
<b>Zinc</b>	<b>29</b>		1.2	0.41	mg/Kg	☼	11/09/12 12:00	11/11/12 00:43	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 21:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 21:53	1
<b>Boron</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 21:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 21:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-22-B02-2**

**Lab Sample ID: 500-52120-22**

Date Collected: 11/07/12 12:00

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:53	1
<b>Cobalt</b>	<b>0.0076</b>	<b>J</b>	0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:53	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:53	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 21:53	1
<b>Lead</b>	<b>0.041</b>		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 21:53	1
<b>Manganese</b>	<b>3.0</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:53	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:53	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 21:53	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:53	1
<b>Zinc</b>	<b>0.044</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/16/12 21:53	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		11/15/12 15:00	11/17/12 23:13	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:13	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		11/16/12 13:30	11/19/12 10:00	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.026</b>		0.019	0.0072	mg/Kg	☼	11/15/12 16:00	11/16/12 11:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.75</b>		0.200	0.200	SU			11/12/12 10:45	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
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	MS or MSD exceeds the control limits
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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> IL 30 <b>Project No.:</b> IDOT2011-DS3 <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 4				
<b>Special Instructions:</b> See Table 2 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.		<b>Sampler:</b> MJN		<b>Sample Temp:</b> 500-52120		<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	ANALYSES					
13	2034A-21-B02-1	11-7-12	9:55	Soil	<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	<input type="checkbox"/> Comments
14	2034A-21-B02-2		10:00		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	0-5'
15	2034A-21-B01-1		10:05		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	5-10'
16	2034A-21-B01-2		10:10		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	0-5'
17	2034A-21-B01-1 DUF		10:15		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	5-10'
18	2034A-22-B01-1		11:40		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	0-5'
19	2034A-22-B01-2		11:45		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	0-4'
20	2034A-22-B01-1 DUF		11:50		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	4-8'
21	2034A-22-B02-1		11:55		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	0-4'
22	2034A-22-B02-2		12:00		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	0-4'
23	2034A-24-B22-1		12:40		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	4-8'
24	2034A-24-B22-2		12:45		<input checked="" type="checkbox"/> VOCs	<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> pH	<input checked="" type="checkbox"/> % Solids	<input type="checkbox"/> Waste Characterization	0-4'
Relinquished by: <i>[Signature]</i>		Date/Time: 11/7/12 15:18		Received by: <i>[Signature]</i>		Date/Time: 11/7/12 15:18		Date/Time: 11/7/12 15:18		158
Relinquished by: <i>[Signature]</i>		Date/Time: 11/7/12 15:50		Received by: <i>[Signature]</i>		Date/Time: 11/7/12 15:50		Date/Time: 11/7/12 15:50		0700
Relinquished by: <i>[Signature]</i>		Date/Time:		Received by:		Date/Time:		Date/Time:		

December 10, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120042

Dear Colleen Grey:

TEKLAB, INC received 5 samples on 12/2/2013 12:20:00 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)



## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120042

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	10
Receiving Check List	11
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120042

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120042

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120042

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120042-001

Client Sample ID: 2034A-22-B01-1

Matrix: SOLID

Collection Date: 11/26/2013 11:10

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>0.0763</b>	mg/L	1	12/09/2013 16:32	94382





## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120042

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120042-002

Client Sample ID: 2034A-22-B01-1 DUP

Matrix: SOLID

Collection Date: 11/26/2013 11:10

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>0.0375</b>	mg/L	1	12/09/2013 16:35	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120042

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120042-003

Client Sample ID: 2034A-22-B01-2

Matrix: SOLID

Collection Date: 11/26/2013 11:45

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>0.0647</b>	mg/L	1	12/09/2013 16:54	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120042

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120042-004

Client Sample ID: 2034A-22-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 10:45

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>0.0495</b>	mg/L	1	12/09/2013 16:57	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120042

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120042-005

Client Sample ID: 2034A-22-B02-2

Matrix: SOLID

Collection Date: 11/26/2013 10:50

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		<b>0.0799</b>	mg/L	1	12/09/2013 17:01	94382



# 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> <del>Test America - Chicago</del> <b>Teklab</b> Address: <del>2417 Bond Street</del> University Park, IL 60484 Phone: <del>708-534-5200</del> Contact: <del>Dick Wright</del> email: richard.wright@testamericainc.com	Project Name: <u>IL 30 Cook Co</u> Project No.: <u>IDOT 2011-053</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>CMI</u>	COC No.: <u>1</u> of <u>1</u> Lab Job No.: <u>13120042</u> Sample Temp: <u>5.0</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 1 Standard, run TCLP for that specific parameter.		<b>ANALYSES</b> <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> <th>VOCs</th> <th>SVOCs</th> <th>BTEX &amp; MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>* Total Metals</th> <th>SPLP/** TCLP Metals</th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>13120042-201</td> <td>2034A-22-B01-1</td> <td>11/26/13</td> <td>1110</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>X SPLP m/ ** TCLP m</td> <td></td> </tr> <tr> <td>202</td> <td>2034A-22-B01-DUP</td> <td></td> <td>1110</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>X</td> <td></td> </tr> <tr> <td>203</td> <td>2034A-22-B01-a</td> <td></td> <td>1115</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>X</td> <td></td> </tr> <tr> <td>204</td> <td>2034A-22-B02-1</td> <td></td> <td>1045</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>X</td> <td></td> </tr> <tr> <td>205</td> <td>2034A-22-B02-a</td> <td></td> <td>1050</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>X</td> <td></td> </tr> <tr> <td colspan="16" style="text-align: center;">           Teklab, Inc.            Courier Pickup         </td> </tr> </tbody> </table>			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	13120042-201	2034A-22-B01-1	11/26/13	1110	S											X SPLP m/ ** TCLP m		202	2034A-22-B01-DUP		1110	S											X		203	2034A-22-B01-a		1115	S											X		204	2034A-22-B02-1		1045	S											X		205	2034A-22-B02-a		1050	S											X		Teklab, Inc. Courier Pickup															
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<b>Received by:</b> <u>[Signature]</u> Date/Time: <u>11/27/13 4:00pm</u> <b>Relinquished by:</b> <u>[Signature]</u> Date/Time: <u>12/2/13 12:20</u> <b>Relinquished by:</b> <u>[Signature]</u> Date/Time: <u>12/13/13 1:20</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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

3535, 3570, and 3500 block of East Sauk Trail Road, and 21900 block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.49514 Longitude: -87.52959  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.49514 Longitude: -87.52959

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 2034/A-23-B01 AND -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-23. SEE FIGURE 4 AND TABLE 5s 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: 500-52121. TEKLAB WORK ORDER NO.: 13120043.

**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

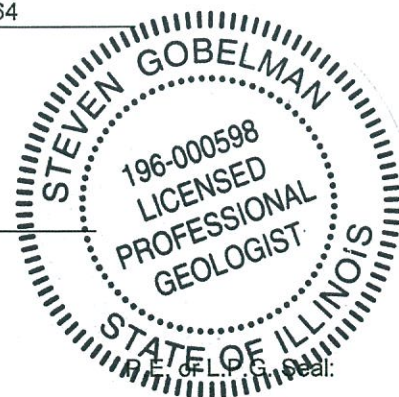
Steven Gobelman

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

3/17/14

Date:



Project Name: FAP 353 (US Route 30)

Latitude: 41.49514 Longitude: -87.52959

Uncontaminated Site Certification

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TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-52121. TEKLAB WORK ORDER NO.: 13120043.

**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:

P.E. or L.P.G. 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
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 2034A-23**

**Residences**

<b>Sample ID</b>	2034A-23-B01	2034A-23-B04	<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
<b>Sample Depth (ft)</b>	0-5	0-5						
<b>Sample Date</b>	11/7/2012	11/7/2012						
<b>PID</b>	0	0						
<b>Sample pH</b>	7.64	7.63						
<b>Matrix</b>	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: 500-52121-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 8:21:41 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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B01**

**Lab Sample ID: 500-52121-12**

Date Collected: 11/07/12 14:30

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 87.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Carbon tetrachloride	<0.0054		0.0054	0.00099	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Chloroethane	<0.0054	*	0.0054	0.0015	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00077	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,1-Dichloroethene	<0.0054		0.0054	0.00088	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00075	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	11/07/12 14:30	11/15/12 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	11/07/12 14:30	11/15/12 06:12	1
Dibromofluoromethane	87		73 - 122	11/07/12 14:30	11/15/12 06:12	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/07/12 14:30	11/15/12 06:12	1
Toluene-d8 (Surr)	108		72 - 122	11/07/12 14:30	11/15/12 06:12	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B01**

**Lab Sample ID: 500-52121-12**

Date Collected: 11/07/12 14:30

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 87.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Naphthalene</b>	<b>0.020</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>2-Methylnaphthalene</b>	<b>0.066</b>	<b>J</b>	0.19	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Acenaphthylene	<0.037		0.037	0.0087	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Phenanthrene</b>	<b>0.53</b>		0.037	0.016	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Anthracene</b>	<b>0.024</b>	<b>J</b>	0.037	0.0089	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Fluoranthene</b>	<b>0.12</b>		0.037	0.015	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Pyrene</b>	<b>0.096</b>		0.037	0.014	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Benzo[a]anthracene</b>	<b>0.069</b>		0.037	0.0079	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Chrysene</b>	<b>0.093</b>		0.037	0.0085	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B01**

**Lab Sample ID: 500-52121-12**

Date Collected: 11/07/12 14:30

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 87.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Benzo[b]fluoranthene</b>	<b>0.063</b>		0.037	0.0073	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Benzo[k]fluoranthene</b>	<b>0.022</b>	J	0.037	0.0090	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Benzo[a]pyrene</b>	<b>0.046</b>		0.037	0.0069	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.030</b>	J	0.037	0.013	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Dibenz(a,h)anthracene</b>	<b>0.014</b>	J	0.037	0.011	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Benzo[g,h,i]perylene</b>	<b>0.065</b>		0.037	0.013	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/19/12 07:00	11/29/12 14:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	64		30 - 110				11/19/12 07:00	11/29/12 14:38	1
Phenol-d5	71		31 - 110				11/19/12 07:00	11/29/12 14:38	1
Nitrobenzene-d5	69		30 - 115				11/19/12 07:00	11/29/12 14:38	1
2-Fluorobiphenyl	73		30 - 119				11/19/12 07:00	11/29/12 14:38	1
2,4,6-Tribromophenol	76		35 - 137				11/19/12 07:00	11/29/12 14:38	1
Terphenyl-d14	78		36 - 134				11/19/12 07:00	11/29/12 14:38	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Arsenic</b>	<b>6.5</b>		0.55	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Barium</b>	<b>120</b>		0.55	0.066	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Beryllium</b>	<b>1.5</b>		0.22	0.016	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Boron</b>	<b>36</b>		2.8	0.51	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Cadmium</b>	<b>0.45</b>		0.11	0.027	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Calcium</b>	<b>15000</b>	B	11	1.9	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Chromium</b>	<b>12</b>		0.55	0.092	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Cobalt</b>	<b>7.1</b>		0.28	0.029	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Copper</b>	<b>20</b>		0.55	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Iron</b>	<b>18000</b>	B	11	4.8	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Lead</b>	<b>38</b>	B	0.28	0.095	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Magnesium</b>	<b>5500</b>	B	5.5	1.1	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Manganese</b>	<b>350</b>	B	0.55	0.078	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Nickel</b>	<b>18</b>		0.55	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Potassium</b>	<b>900</b>		28	3.1	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Selenium</b>	<b>0.46</b>	J	0.55	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Sodium</b>	<b>360</b>		55	10	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Vanadium</b>	<b>20</b>		0.28	0.042	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1
<b>Zinc</b>	<b>130</b>		1.1	0.38	mg/Kg	☼	11/09/12 12:00	11/17/12 04:40	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.61</b>		0.50	0.010	mg/L		11/15/12 15:00	11/17/12 00:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/17/12 00:08	1
<b>Boron</b>	<b>0.088</b>	J	0.50	0.050	mg/L		11/15/12 15:00	11/17/12 00:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/17/12 00:08	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B01**

**Lab Sample ID: 500-52121-12**

Date Collected: 11/07/12 14:30

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:08	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/17/12 00:08	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:08	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/17/12 00:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/17/12 00:08	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:08	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:08	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/17/12 00:08	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/17/12 00:08	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		11/15/12 15:00	11/17/12 00:08	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		11/15/12 15:00	11/17/12 23:31	1
Thallium	<0.0020	<b>^</b>	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:31	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		11/16/12 13:30	11/19/12 10:32	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.041</b>		0.018	0.0068	mg/Kg	☼	11/16/12 15:00	11/19/12 12:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.64</b>		0.200	0.200	SU			11/13/12 09:55	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B04**

**Lab Sample ID: 500-52121-15**

Date Collected: 11/07/12 14:45

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 89.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0058		0.0058	0.0025	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Benzene	<0.0058		0.0058	0.00079	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Bromodichloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Bromomethane	<0.0058		0.0058	0.0018	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Carbon disulfide	<0.0058		0.0058	0.00087	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Chloroethane	<0.0058	*	0.0058	0.0016	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Chloroform	<0.0058		0.0058	0.00067	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,1-Dichloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,1-Dichloroethene	<0.0058		0.0058	0.00094	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,2-Dichloropropane	<0.0058		0.0058	0.00088	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
<b>Methylene Chloride</b>	<b>0.017</b>		0.0058	0.0016	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00096	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,1,2,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Tetrachloroethene	<0.0058		0.0058	0.00089	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Toluene	<0.0058		0.0058	0.00081	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00080	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Trichloroethene	<0.0058		0.0058	0.00096	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	11/07/12 14:45	11/15/12 07:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	11/07/12 14:45	11/15/12 07:25	1
Dibromofluoromethane	89		73 - 122	11/07/12 14:45	11/15/12 07:25	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/07/12 14:45	11/15/12 07:25	1
Toluene-d8 (Surr)	107		72 - 122	11/07/12 14:45	11/15/12 07:25	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.055	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
1,2-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B04**

**Lab Sample ID: 500-52121-15**

Date Collected: 11/07/12 14:45

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 89.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.046	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.044	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Hexachloroethane	<0.17		0.17	0.037	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2-Chlorophenol	<0.17		0.17	0.050	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,4,5-Trichlorophenol	<0.35		0.35	0.099	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2-Methylnaphthalene	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2-Nitroaniline	<0.17		0.17	0.063	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2-Chloronaphthalene	<0.17		0.17	0.039	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,6-Dinitrotoluene	<0.17		0.17	0.041	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2-Nitrophenol	<0.35		0.35	0.054	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Acenaphthylene	<0.035		0.035	0.0080	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Dibenzofuran	<0.17		0.17	0.042	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
4-Nitroaniline	<0.35		0.35	0.071	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Hexachlorobenzene	<0.070		0.070	0.0068	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.055	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
N-Nitrosodiphenylamine	<0.17		0.17	0.047	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.084	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Carbazole	<0.17		0.17	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Di-n-butyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Butyl benzyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Chrysene	<0.035		0.035	0.0078	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B04**

**Lab Sample ID: 500-52121-15**

Date Collected: 11/07/12 14:45

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 89.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.046	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Di-n-octyl phthalate	<0.17		0.17	0.070	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Benzo[b]fluoranthene	<0.035		0.035	0.0067	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Benzo[k]fluoranthene	<0.035		0.035	0.0083	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Benzo[a]pyrene	<0.035		0.035	0.0063	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0097	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
3 & 4 Methylphenol	<0.17		0.17	0.066	mg/Kg	☼	11/19/12 07:00	11/29/12 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		30 - 110				11/19/12 07:00	11/29/12 15:44	1
Phenol-d5	90		31 - 110				11/19/12 07:00	11/29/12 15:44	1
Nitrobenzene-d5	87		30 - 115				11/19/12 07:00	11/29/12 15:44	1
2-Fluorobiphenyl	85		30 - 119				11/19/12 07:00	11/29/12 15:44	1
2,4,6-Tribromophenol	75		35 - 137				11/19/12 07:00	11/29/12 15:44	1
Terphenyl-d14	94		36 - 134				11/19/12 07:00	11/29/12 15:44	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Arsenic</b>	<b>7.9</b>		0.54	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Barium</b>	<b>35</b>		0.54	0.065	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Beryllium</b>	<b>0.51</b>		0.22	0.016	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Boron</b>	<b>2.5 J</b>		2.7	0.51	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
Cadmium	<0.11		0.11	0.027	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Calcium</b>	<b>870 B</b>		11	1.9	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Chromium</b>	<b>12</b>		0.54	0.091	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Cobalt</b>	<b>11</b>		0.27	0.029	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Copper</b>	<b>18</b>		0.54	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Iron</b>	<b>17000 B</b>		11	4.7	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Lead</b>	<b>13 B</b>		0.27	0.094	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Magnesium</b>	<b>2100 B</b>		5.4	1.1	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Manganese</b>	<b>420 B</b>		0.54	0.077	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Nickel</b>	<b>19</b>		0.54	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Potassium</b>	<b>780</b>		27	3.1	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Selenium</b>	<b>0.21 J</b>		0.54	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Sodium</b>	<b>69</b>		54	10	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Thallium</b>	<b>0.23 J</b>		0.54	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Vanadium</b>	<b>15</b>		0.27	0.041	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1
<b>Zinc</b>	<b>31</b>		1.1	0.37	mg/Kg	☼	11/09/12 12:00	11/17/12 05:14	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.20 J</b>		0.50	0.010	mg/L		11/15/12 15:00	11/17/12 00:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/17/12 00:27	1
<b>Boron</b>	<b>0.051 J</b>		0.50	0.050	mg/L		11/15/12 15:00	11/17/12 00:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/17/12 00:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-23-B04**

**Lab Sample ID: 500-52121-15**

Date Collected: 11/07/12 14:45

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/17/12 00:27	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:27	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/17/12 00:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/17/12 00:27	1
<b>Manganese</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:27	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/17/12 00:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/17/12 00:27	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/17/12 00:27	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		11/15/12 15:00	11/17/12 23:34	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:34	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		11/16/12 13:30	11/19/12 10:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.027</b>		0.017	0.0066	mg/Kg	☼	11/16/12 15:00	11/19/12 12:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.63</b>		0.200	0.200	SU			11/13/12 10:05	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>IL 30</u> Project No.: <u>IDOT2011-053</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>4</u> of <u>4</u> Lab Job No.: <u>500-52121</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 <i>None</i>	TCLP/SPLP <i>None</i>	PH	% Solids	Waste Characterization	Comments	
13	2034A-23-Boz	11-7-12	2:35	Soil	X	X					X	X	X	X		0-5'	
14	2034A-23-Boz	↓	2:40	↓	↓	↓					↓	↓	↓	↓		0-5'	
15	2034A-23-Boz	↓	2:45	↓	↓	↓					↓	↓	↓	↓		0-5'	
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time
					11/7/12 15:18						11/7/12 15:18						11/8/12 0700
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time
					11/7/12 1550						11/7/12 1550						11/8/12 0700
Relinquished by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time	Received by: <i>[Signature]</i>					Date/Time
					11/7/12 1550						11/7/12 1550						11/8/12 0700



December 12, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120043

Dear Colleen Grey:

TEKLAB, INC received 3 samples on 12/2/2013 12:20:00 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)



## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120043

**Client Project:** IDOT2011-053

**Report Date:** 12-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	8
Receiving Check List	10
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120043

**Client Project:** IDOT2011-053

**Report Date:** 12-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            |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120043

**Client Project:** IDOT2011-053

**Report Date:** 12-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120043

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120043-001

Client Sample ID: 2034A-23-B01

Matrix: SOLID

Collection Date: 11/26/2013 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		<b>0.044</b>	mg/L	1	12/05/2013 18:03	94314



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120043

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120043-003

Client Sample ID: 2034A-23-B04

Matrix: SOLID

Collection Date: 11/26/2013 12:30

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		< 0.05	mg/L	1	12/10/2013 18:48	94441
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.016	0.05	X	0.736	mg/L	10	12/06/2013 13:22	94314





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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

21900 Block of East Lincoln Highway

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.49552 Longitude: -87.52833  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)Latitude: 41.49552 Longitude: -87.52833Uncontaminated 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 2034/A-24-B01 THROUGH -B03, -B05, -B09 THROUGH -B11, -B15, -B16, -B19, -B20, -B22 AND -B23 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-24. SEE FIGURES 3 AND 4 AND TABLE 5t 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: 500-52233, 500-52178, 500-52177, 500-52121, 500-52120 AND 500-52267. TEKLAB WORK ORDER NO.: 13120044.

**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: 3/17/14

**THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES**

*Analytical Parameters*

<b>Volatile Organic Compounds (mg/kg)</b>
1,1,1-Trichloroethane
1,1,1,2-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.



# 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: 500-52178-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 3:51:36 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.*

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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B09-2**

**Lab Sample ID: 500-52178-1**

Date Collected: 11/08/12 10:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 86.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Carbon disulfide	<0.0046		0.0046	0.00068	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Carbon tetrachloride	<0.0046		0.0046	0.00083	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Chlorobenzene	<0.0046		0.0046	0.00046	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,1-Dichloroethane	<0.0046		0.0046	0.00072	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00062	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1
Xylenes, Total	<0.0092		0.0092	0.00041	mg/Kg	☼	11/08/12 10:35	11/15/12 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		76 - 120	11/08/12 10:35	11/15/12 12:05	1
Dibromofluoromethane	103		73 - 122	11/08/12 10:35	11/15/12 12:05	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/08/12 10:35	11/15/12 12:05	1
Toluene-d8 (Surr)	97		72 - 122	11/08/12 10:35	11/15/12 12:05	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B09-2**

**Lab Sample ID: 500-52178-1**

Date Collected: 11/08/12 10:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 86.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Hexachlorobutadiene	<0.18	*	0.18	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
2,4-Dinitrotoluene	<0.18	*	0.18	0.056	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B09-2**

**Lab Sample ID: 500-52178-1**

Date Collected: 11/08/12 10:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 86.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Benzo[k]fluoranthene	<0.036		0.036	0.0087	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/20/12 07:07	11/29/12 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		30 - 110				11/20/12 07:07	11/29/12 14:22	1
Phenol-d5	81		31 - 110				11/20/12 07:07	11/29/12 14:22	1
Nitrobenzene-d5	85		30 - 115				11/20/12 07:07	11/29/12 14:22	1
2-Fluorobiphenyl	94		30 - 119				11/20/12 07:07	11/29/12 14:22	1
2,4,6-Tribromophenol	92		35 - 137				11/20/12 07:07	11/29/12 14:22	1
Terphenyl-d14	93		36 - 134				11/20/12 07:07	11/29/12 14:22	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Arsenic</b>	<b>1.9</b>		0.55	0.12	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Barium</b>	<b>17</b>		0.55	0.066	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Beryllium</b>	<b>0.32</b>		0.22	0.016	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Boron</b>	<b>2.1 J</b>		2.8	0.52	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Cadmium</b>	<b>0.040 J</b>		0.11	0.027	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Calcium</b>	<b>1300 B</b>		11	2.0	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Chromium</b>	<b>7.4</b>		0.55	0.092	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Cobalt</b>	<b>3.1</b>		0.28	0.029	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Copper</b>	<b>8.0</b>		0.55	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Iron</b>	<b>6300</b>		11	4.8	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Lead</b>	<b>7.4 B</b>		0.28	0.095	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Magnesium</b>	<b>1300 B</b>		5.5	1.1	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Manganese</b>	<b>44</b>		0.55	0.078	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Nickel</b>	<b>8.5</b>		0.55	0.12	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Potassium</b>	<b>460 B</b>		28	3.1	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Sodium</b>	<b>48 J</b>		55	10	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Vanadium</b>	<b>11</b>		0.28	0.042	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1
<b>Zinc</b>	<b>24 B</b>		1.1	0.38	mg/Kg	☼	11/12/12 16:30	11/17/12 20:34	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.13 J</b>		0.50	0.010	mg/L		11/16/12 15:30	11/17/12 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 23:50	1
<b>Boron</b>	<b>0.13 J</b>		0.50	0.050	mg/L		11/16/12 15:30	11/17/12 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 23:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B09-2**

**Lab Sample ID: 500-52178-1**

Date Collected: 11/08/12 10:35

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 23:50	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 23:50	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 23:50	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 23:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 23:50	1
<b>Manganese</b>	<b>0.055</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 23:50	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 23:50	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 23:50	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 23:50	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/17/12 23:50	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		11/16/12 15:30	11/26/12 13:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 13:32	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000030</b>	<b>J ^</b>	0.00020	0.000020	mg/L		11/19/12 16:00	11/20/12 10:46	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0070	mg/Kg	☼	11/16/12 15:00	11/19/12 12:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.89</b>		0.200	0.200	SU			11/14/12 08:32	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-1**

**Lab Sample ID: 500-52178-2**

**Date Collected: 11/08/12 10:40**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 91.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0055		0.0055	0.0024	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Benzene	<0.0055		0.0055	0.00076	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Bromodichloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Bromomethane	<0.0055		0.0055	0.0017	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Carbon tetrachloride	<0.0055		0.0055	0.0010	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Chlorobenzene	<0.0055		0.0055	0.00056	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Chloroethane	<0.0055	*	0.0055	0.0015	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Chloromethane	<0.0055		0.0055	0.0012	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00078	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Dibromochloromethane	<0.0055		0.0055	0.00096	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,1-Dichloroethane	<0.0055		0.0055	0.00087	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,2-Dichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,1-Dichloroethene	<0.0055		0.0055	0.00089	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,2-Dichloropropane	<0.0055		0.0055	0.00084	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00091	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Tetrachloroethene	<0.0055		0.0055	0.00084	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Toluene	<0.0055		0.0055	0.00077	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00076	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00099	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00075	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Trichloroethene	<0.0055		0.0055	0.00091	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Vinyl chloride	<0.0055		0.0055	0.0012	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1
Xylenes, Total	<0.011		0.011	0.00050	mg/Kg	☼	11/08/12 10:40	11/16/12 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/08/12 10:40	11/16/12 02:43	1
Dibromofluoromethane	84		73 - 122	11/08/12 10:40	11/16/12 02:43	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/08/12 10:40	11/16/12 02:43	1
Toluene-d8 (Surr)	106		72 - 122	11/08/12 10:40	11/16/12 02:43	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-1**

**Lab Sample ID: 500-52178-2**

Date Collected: 11/08/12 10:40

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 91.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Hexachlorobutadiene	<0.18	*	0.18	0.046	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2-Methylnaphthalene	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Acenaphthylene	<0.035		0.035	0.0080	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
2,4-Dinitrotoluene	<0.18	*	0.18	0.054	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Hexachlorobenzene	<0.070		0.070	0.0069	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Diethyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Benzo[a]anthracene	<0.035		0.035	0.0073	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-1**

**Lab Sample ID: 500-52178-2**

Date Collected: 11/08/12 10:40

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 91.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Benzo[k]fluoranthene	<0.035		0.035	0.0083	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0098	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1
3 & 4 Methylphenol	<0.18		0.18	0.066	mg/Kg	☼	11/20/12 07:07	11/30/12 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		30 - 110	11/20/12 07:07	11/30/12 11:31	1
Phenol-d5	66		31 - 110	11/20/12 07:07	11/30/12 11:31	1
Nitrobenzene-d5	78		30 - 115	11/20/12 07:07	11/30/12 11:31	1
2-Fluorobiphenyl	83		30 - 119	11/20/12 07:07	11/30/12 11:31	1
2,4,6-Tribromophenol	81		35 - 137	11/20/12 07:07	11/30/12 11:31	1
Terphenyl-d14	84		36 - 134	11/20/12 07:07	11/30/12 11:31	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Arsenic</b>	<b>5.8</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Barium</b>	<b>15</b>		0.52	0.062	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Beryllium</b>	<b>0.29</b>		0.21	0.015	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Boron</b>	<b>2.6</b>		2.6	0.49	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Cadmium</b>	<b>0.11</b>		0.10	0.026	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Calcium</b>	<b>8300 B</b>		10	1.8	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Chromium</b>	<b>6.6</b>		0.52	0.087	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Cobalt</b>	<b>4.5</b>		0.26	0.027	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Copper</b>	<b>11</b>		0.52	0.14	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Iron</b>	<b>9800</b>		10	4.5	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Lead</b>	<b>9.6 B</b>		0.26	0.090	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Magnesium</b>	<b>5800 B</b>		5.2	1.0	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Manganese</b>	<b>170</b>		0.52	0.074	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Nickel</b>	<b>11</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Potassium</b>	<b>630 B</b>		26	3.0	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Sodium</b>	<b>60</b>		52	9.6	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Vanadium</b>	<b>11</b>		0.26	0.040	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1
<b>Zinc</b>	<b>26 B</b>		1.0	0.36	mg/Kg	☼	11/12/12 16:30	11/17/12 21:05	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.15 J</b>		0.50	0.010	mg/L		11/16/12 15:30	11/18/12 00:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/18/12 00:29	1
<b>Boron</b>	<b>0.096 J</b>		0.50	0.050	mg/L		11/16/12 15:30	11/18/12 00:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/18/12 00:29	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-1**

**Lab Sample ID: 500-52178-2**

Date Collected: 11/08/12 10:40

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:29	1
<b>Cobalt</b>	<b>0.0067</b>	<b>J</b>	0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 00:29	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:29	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/18/12 00:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/18/12 00:29	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:29	1
<b>Nickel</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:29	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/18/12 00:29	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 00:29	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/18/12 00:29	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		11/16/12 15:30	11/26/12 13:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 13:36	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000020</b>	<b>J ^</b>	0.00020	0.000020	mg/L		11/19/12 16:00	11/20/12 10:48	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.017</b>		0.016	0.0061	mg/Kg	☼	11/16/12 15:00	11/19/12 12:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.97</b>		0.200	0.200	SU			11/14/12 08:34	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-2**

**Lab Sample ID: 500-52178-3**

**Date Collected: 11/08/12 10:45**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 83.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0046		0.0046	0.0020	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Chloroethane	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Chloromethane	<0.0046		0.0046	0.00096	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Vinyl chloride	<0.0046		0.0046	0.00096	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	11/08/12 10:45	11/15/12 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/08/12 10:45	11/15/12 12:51	1
Dibromofluoromethane	98		73 - 122	11/08/12 10:45	11/15/12 12:51	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/08/12 10:45	11/15/12 12:51	1
Toluene-d8 (Surr)	95		72 - 122	11/08/12 10:45	11/15/12 12:51	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-2**

**Lab Sample ID: 500-52178-3**

Date Collected: 11/08/12 10:45

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Hexachlorobutadiene	<0.19	*	0.19	0.051	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Naphthalene	<0.038		0.038	0.0075	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.049	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2-Nitroaniline	<0.19		0.19	0.070	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2-Chloronaphthalene	<0.19		0.19	0.044	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.19	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2-Nitrophenol	<0.38		0.38	0.061	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
3-Nitroaniline	<0.38		0.38	0.075	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
2,4-Dinitrotoluene	<0.19	*	0.19	0.059	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-2**

**Lab Sample ID: 500-52178-3**

Date Collected: 11/08/12 10:45

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Di-n-octyl phthalate	<0.19		0.19	0.079	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/20/12 07:07	11/30/12 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		30 - 110	11/20/12 07:07	11/30/12 11:55	1
Phenol-d5	83		31 - 110	11/20/12 07:07	11/30/12 11:55	1
Nitrobenzene-d5	83		30 - 115	11/20/12 07:07	11/30/12 11:55	1
2-Fluorobiphenyl	89		30 - 119	11/20/12 07:07	11/30/12 11:55	1
2,4,6-Tribromophenol	75		35 - 137	11/20/12 07:07	11/30/12 11:55	1
Terphenyl-d14	94		36 - 134	11/20/12 07:07	11/30/12 11:55	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Arsenic</b>	<b>9.0</b>		0.59	0.13	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Barium</b>	<b>33</b>		0.59	0.070	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Beryllium</b>	<b>0.61</b>		0.24	0.017	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Boron</b>	<b>2.7 J</b>		3.0	0.55	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Cadmium</b>	<b>0.086 J</b>		0.12	0.029	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Calcium</b>	<b>1400 B</b>		12	2.1	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Chromium</b>	<b>14</b>		0.59	0.099	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Cobalt</b>	<b>7.9</b>		0.30	0.031	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Copper</b>	<b>16</b>		0.59	0.16	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Iron</b>	<b>19000</b>		12	5.1	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Lead</b>	<b>13 B</b>		0.30	0.10	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Magnesium</b>	<b>2100 B</b>		5.9	1.1	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Manganese</b>	<b>61</b>		0.59	0.083	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Nickel</b>	<b>19</b>		0.59	0.13	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Potassium</b>	<b>940 B</b>		30	3.4	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Sodium</b>	<b>40 J</b>		59	11	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Vanadium</b>	<b>22</b>		0.30	0.045	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1
<b>Zinc</b>	<b>37 B</b>		1.2	0.41	mg/Kg	☼	11/12/12 16:30	11/17/12 21:11	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.12 J</b>		0.50	0.010	mg/L		11/16/12 15:30	11/18/12 00:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/18/12 00:36	1
<b>Boron</b>	<b>0.11 J</b>		0.50	0.050	mg/L		11/16/12 15:30	11/18/12 00:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/18/12 00:36	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B10-2**

**Lab Sample ID: 500-52178-3**

Date Collected: 11/08/12 10:45

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:36	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 00:36	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:36	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/18/12 00:36	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/18/12 00:36	1
<b>Manganese</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:36	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 00:36	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/18/12 00:36	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 00:36	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/18/12 00:36	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		11/16/12 15:30	11/26/12 13:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 13:37	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		11/19/12 16:00	11/20/12 10:53	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.015</b>	<b>J</b>	0.020	0.0076	mg/Kg	☼	11/16/12 15:00	11/19/12 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.79</b>		0.200	0.200	SU			11/14/12 08:37	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-1**

**Lab Sample ID: 500-52178-16**

Date Collected: 11/08/12 13:00

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Carbon tetrachloride	<0.0053		0.0053	0.00097	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00070	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,2-Dichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,2-Dichloropropane	<0.0053		0.0053	0.00081	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00070	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
<b>Methylene Chloride</b>	<b>0.013</b>		0.0053	0.0014	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00088	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Styrene	<0.0053		0.0053	0.00070	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Trichloroethene	<0.0053		0.0053	0.00088	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/08/12 13:00	11/15/12 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		76 - 120	11/08/12 13:00	11/15/12 17:24	1
Dibromofluoromethane	102		73 - 122	11/08/12 13:00	11/15/12 17:24	1
1,2-Dichloroethane-d4 (Surr)	96		74 - 123	11/08/12 13:00	11/15/12 17:24	1
Toluene-d8 (Surr)	101		72 - 122	11/08/12 13:00	11/15/12 17:24	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-1**

**Lab Sample ID: 500-52178-16**

Date Collected: 11/08/12 13:00

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Hexachlorobutadiene	<0.19	*	0.19	0.050	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
2,4-Dinitrotoluene	<0.19	*	0.19	0.059	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Phenanthrene</b>	<b>0.062</b>		0.038	0.016	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Fluoranthene</b>	<b>0.055</b>		0.038	0.016	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Pyrene</b>	<b>0.048</b>		0.038	0.014	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Benzo[a]anthracene</b>	<b>0.020</b>	J	0.038	0.0080	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Chrysene</b>	<b>0.027</b>	J	0.038	0.0086	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-1**

**Lab Sample ID: 500-52178-16**

Date Collected: 11/08/12 13:00

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Benzo[b]fluoranthene</b>	<b>0.031</b>	<b>J</b>	0.038	0.0074	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Benzo[k]fluoranthene	<0.038		0.038	0.0091	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Benzo[a]pyrene</b>	<b>0.020</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
<b>Benzo[g,h,i]perylene</b>	<b>0.013</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	11/20/12 07:07	11/29/12 21:23	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/20/12 07:07	11/29/12 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-Fluorophenol	56		30 - 110				11/20/12 07:07	11/29/12 21:23	1
Phenol-d5	63		31 - 110				11/20/12 07:07	11/29/12 21:23	1
Nitrobenzene-d5	59		30 - 115				11/20/12 07:07	11/29/12 21:23	1
2-Fluorobiphenyl	74		30 - 119				11/20/12 07:07	11/29/12 21:23	1
2,4,6-Tribromophenol	70		35 - 137				11/20/12 07:07	11/29/12 21:23	1
Terphenyl-d14	81		36 - 134				11/20/12 07:07	11/29/12 21:23	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Arsenic</b>	<b>10</b>		0.55	0.12	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Barium</b>	<b>14</b>		0.55	0.066	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Beryllium</b>	<b>0.59</b>		0.22	0.016	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Boron</b>	<b>0.90</b>	<b>J</b>	2.8	0.51	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Cadmium</b>	<b>0.090</b>	<b>J</b>	0.11	0.027	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Calcium</b>	<b>2500</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Chromium</b>	<b>7.7</b>		0.55	0.092	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Cobalt</b>	<b>3.2</b>		0.28	0.029	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Copper</b>	<b>14</b>		0.55	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Iron</b>	<b>24000</b>		11	4.8	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Lead</b>	<b>10</b>	<b>B</b>	0.28	0.095	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Magnesium</b>	<b>1700</b>	<b>B</b>	5.5	1.1	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Manganese</b>	<b>33</b>		0.55	0.078	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Nickel</b>	<b>8.2</b>		0.55	0.12	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Potassium</b>	<b>270</b>	<b>B</b>	28	3.1	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
Selenium	<0.55		0.55	0.16	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Sodium</b>	<b>84</b>		55	10	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
Thallium	<0.55		0.55	0.14	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Vanadium</b>	<b>26</b>		0.28	0.042	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1
<b>Zinc</b>	<b>18</b>	<b>B</b>	1.1	0.38	mg/Kg	☼	11/12/12 16:30	11/17/12 23:02	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/18/12 02:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/18/12 02:11	1
Boron	<0.50		0.50	0.050	mg/L		11/16/12 15:30	11/18/12 02:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/18/12 02:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-1**

**Lab Sample ID: 500-52178-16**

Date Collected: 11/08/12 13:00

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:11	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 02:11	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:11	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/18/12 02:11	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/18/12 02:11	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:11	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:11	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/18/12 02:11	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 02:11	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/18/12 02:11	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		11/16/12 15:30	11/26/12 13:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 13:50	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		11/19/12 16:00	11/20/12 11:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.019</b>		0.018	0.0070	mg/Kg	☆	11/16/12 15:00	11/19/12 13:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.89</b>		0.200	0.200	SU			11/14/12 09:16	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-2**

**Lab Sample ID: 500-52178-17**

Date Collected: 11/08/12 13:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 79.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0051		0.0051	0.0022	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Benzene	<0.0051		0.0051	0.00070	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Bromodichloromethane	<0.0051		0.0051	0.00088	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Bromoform	<0.0051		0.0051	0.0012	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Bromomethane	<0.0051		0.0051	0.0015	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
2-Butanone (MEK)	<0.0051		0.0051	0.0019	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Carbon disulfide	<0.0051		0.0051	0.00077	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Carbon tetrachloride	<0.0051		0.0051	0.00093	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Chlorobenzene	<0.0051		0.0051	0.00052	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Chloroethane	<0.0051		0.0051	0.0014	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Chloroform	<0.0051		0.0051	0.00059	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Chloromethane	<0.0051		0.0051	0.0011	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.00073	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Dibromochloromethane	<0.0051		0.0051	0.00089	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,1-Dichloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,1-Dichloroethene	<0.0051		0.0051	0.00083	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,2-Dichloropropane	<0.0051		0.0051	0.00078	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.00067	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Ethylbenzene	<0.0051		0.0051	0.0010	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
2-Hexanone	<0.0051		0.0051	0.0015	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
<b>Methylene Chloride</b>	<b>0.0079</b>		0.0051	0.0014	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0013	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Methyl tert-butyl ether	<0.0051		0.0051	0.00085	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Styrene	<0.0051		0.0051	0.00067	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,1,1,2-Tetrachloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Tetrachloroethene	<0.0051		0.0051	0.00078	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Toluene	<0.0051		0.0051	0.00072	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.00071	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.00092	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.00077	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00070	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Trichloroethene	<0.0051		0.0051	0.00085	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Vinyl chloride	<0.0051		0.0051	0.0011	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1
Xylenes, Total	<0.010		0.010	0.00046	mg/Kg	☼	11/08/12 13:05	11/15/12 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		76 - 120	11/08/12 13:05	11/15/12 17:47	1
Dibromofluoromethane	97		73 - 122	11/08/12 13:05	11/15/12 17:47	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/08/12 13:05	11/15/12 17:47	1
Toluene-d8 (Surr)	97		72 - 122	11/08/12 13:05	11/15/12 17:47	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-2**

**Lab Sample ID: 500-52178-17**

Date Collected: 11/08/12 13:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 79.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.051	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Nitrobenzene	<0.040		0.040	0.012	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,4-Dimethylphenol	<0.40		0.40	0.12	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Hexachlorobutadiene	<0.20	*	0.20	0.052	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Naphthalene	<0.040		0.040	0.0077	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,4-Dichlorophenol	<0.40		0.40	0.12	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,4,6-Trichlorophenol	<0.40		0.40	0.050	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,4,5-Trichlorophenol	<0.40		0.40	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
4-Chloro-3-methylphenol	<0.40		0.40	0.19	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2-Nitrophenol	<0.40		0.40	0.062	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
3-Nitroaniline	<0.40		0.40	0.077	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Acenaphthylene	<0.040		0.040	0.0091	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
2,4-Dinitrotoluene	<0.20	*	0.20	0.061	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Acenaphthene	<0.040		0.040	0.012	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Fluorene	<0.040		0.040	0.0090	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
4-Nitroaniline	<0.40		0.40	0.082	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
4,6-Dinitro-2-methylphenol	<0.40		0.40	0.097	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Phenanthrene	<0.040		0.040	0.017	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Anthracene	<0.040		0.040	0.0094	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Fluoranthene	<0.040		0.040	0.016	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Pyrene	<0.040		0.040	0.014	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Benzo[a]anthracene	<0.040		0.040	0.0083	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Chrysene	<0.040		0.040	0.0090	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-2**

**Lab Sample ID: 500-52178-17**

Date Collected: 11/08/12 13:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 79.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Benzo[b]fluoranthene	<0.040		0.040	0.0077	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Benzo[k]fluoranthene	<0.040		0.040	0.0095	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Benzo[a]pyrene	<0.040		0.040	0.0072	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.013	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Dibenz(a,h)anthracene	<0.040		0.040	0.011	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/20/12 07:07	11/29/12 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110	11/20/12 07:07	11/29/12 21:46	1
Phenol-d5	65		31 - 110	11/20/12 07:07	11/29/12 21:46	1
Nitrobenzene-d5	62		30 - 115	11/20/12 07:07	11/29/12 21:46	1
2-Fluorobiphenyl	66		30 - 119	11/20/12 07:07	11/29/12 21:46	1
2,4,6-Tribromophenol	79		35 - 137	11/20/12 07:07	11/29/12 21:46	1
Terphenyl-d14	83		36 - 134	11/20/12 07:07	11/29/12 21:46	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Arsenic</b>	<b>0.97</b>		0.58	0.13	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Barium</b>	<b>11</b>		0.58	0.069	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Beryllium</b>	<b>0.35</b>		0.23	0.017	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Boron</b>	<b>3.2</b>		2.9	0.54	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Cadmium</b>	<b>0.15</b>		0.12	0.029	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Calcium</b>	<b>6300</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Chromium</b>	<b>9.0</b>		0.58	0.097	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Cobalt</b>	<b>4.6</b>		0.29	0.031	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Copper</b>	<b>21</b>		0.58	0.16	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Iron</b>	<b>6300</b>		12	5.0	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Lead</b>	<b>14</b>	<b>B</b>	0.29	0.10	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Magnesium</b>	<b>5200</b>	<b>B</b>	5.8	1.1	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Manganese</b>	<b>67</b>		0.58	0.082	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Nickel</b>	<b>16</b>		0.58	0.13	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Potassium</b>	<b>830</b>	<b>B</b>	29	3.3	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Sodium</b>	<b>170</b>		58	11	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Thallium</b>	<b>0.17</b>	<b>J</b>	0.58	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Vanadium</b>	<b>12</b>		0.29	0.044	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1
<b>Zinc</b>	<b>41</b>	<b>B</b>	1.2	0.40	mg/Kg	☼	11/12/12 16:30	11/17/12 23:08	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/18/12 02:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/18/12 02:17	1
<b>Boron</b>	<b>0.058</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/18/12 02:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/18/12 02:17	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-24-B05-2**

**Lab Sample ID: 500-52178-17**

Date Collected: 11/08/12 13:05

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:17	1
<b>Cobalt</b>	<b>0.025</b>		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 02:17	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:17	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/18/12 02:17	1
<b>Lead</b>	<b>0.016</b>		0.0075	0.0050	mg/L		11/20/12 11:00	11/20/12 18:20	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:17	1
<b>Nickel</b>	<b>0.046</b>		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:17	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/18/12 02:17	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 02:17	1
<b>Zinc</b>	<b>0.034</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 15:30	11/18/12 02:17	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		11/16/12 15:30	11/26/12 13:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 13:51	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000029</b>	<b>J</b>	0.00020	0.000020	mg/L		11/19/12 16:00	11/20/12 11:25	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.019	0.0074	mg/Kg	☼	11/16/12 15:00	11/19/12 13:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.81</b>		0.200	0.200	SU			11/14/12 09:19	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

## 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	RPD of the MS and MSD exceeds the control limits
F	MS or MSD exceeds the control limits
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>	Project Name: <u>IL 30</u>	COC No.: <u>3</u> of <u>5</u>
	Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b>	Project No.: <u>IDOT2011-053</u>	Lab Job No.: <u>500-52178</u>
Phone: <b>708-534-5200</b>	Contact: <b>Dick Wright</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: <u>(4.7) (3.1)</u>
email: <u>richard.wright@testamericainc.com</u>	email: <u>richard.wright@testamericainc.com</u>	Sampler: <u>MUN</u>	

**Special Instructions:**  
See Table 2 for complete parameter lists and reporting limit requirements.  
\*If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.

ANALYSES											
VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization	

- Matrix Key:**  
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	PNAs	Pesticides	PCBs	Total Metals / Inorg	TCLP/SPLP Metals / Inorg	pH	% Solids	Waste Characterization	Comments
1	2034A-24-B09-2	11-8-12	10:35	Soil	X	X					X	X	X	X		4-8'
2	2034A-24-B10-1		10:40													0-4'
3	2034A-24-B10-2		10:45													4-8'
4	2034A-24-B10-1		11:45													0-4'
5	2034A-24-B10-2		11:50													4-8'
6	2034A-24-B12-1		12:00													0-4'
7	2034A-24-B12-2		12:05													4-8'
8	2034A-24-B12-1 DUP		12:10													0-4'
9	2034A-24-B08-1		12:20													0-4'
10	2034A-24-B08-2		12:25													4-8'
11	2034A-24-B06-1		12:35													0-4'
12	2034A-24-B06-2		12:40													4-8'

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>
Relinquished by: <u>[Signature]</u>	Date/Time:	Received by:	Date/Time:



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	Project Name: <u>IL 30</u>	COC No.: <u>4</u> of <u>5</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>IDOT2011-053</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>500-52178</u> Sample Temp:
<b>Special Instructions:</b> See Table 2 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	ANALYSES										Comments
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals /mg	TCLP/SPLP Metals /mg	pH	% Solids	

13	2034A-24-B07-1	11-8-12	12:45	Soil	X	X					X	X	X	X		0-4'
14	2034A-24-B07-2		12:55													4-8'
15	2034A-24-B07-1 Dup		12:55													0-4'
16	2034A-24-B05-1		1:00													0-4'
17	2034A-24-B05-2		1:05													4-8'
18	2034A-26-B01		1:35													0-3'
19	2034A-25-B06-1		1:40													0-4'
20	2034A-25-B06-2		1:45													4-8'
21	2034A-25-B05-1		1:50													0-4'
22	2034A-25-B05-2		1:55													4-8'
23	2034A-25-B05-1 Dup		2:00													0-4'
24	2034A-25-B04-1		2:05													0-4'

Relinquished by:	Date/Time: <u>11/8/12 1511</u>	Received by:	Date/Time: <u>11/8/12 1511</u>
Relinquished by:	Date/Time: <u>11/8/12 1605</u>	Received by:	Date/Time: <u>11/8/12 1605</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: 500-52177-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 8:25:23 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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-1**

**Lab Sample ID: 500-52177-1**

Date Collected: 11/08/12 07:30

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0048	0.0021	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Benzene	<0.0048		0.0048	0.00065	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Bromomethane	<0.0048		0.0048	0.0014	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Carbon disulfide	<0.0048		0.0048	0.00071	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Carbon tetrachloride	<0.0048		0.0048	0.00087	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Chlorobenzene	<0.0048		0.0048	0.00048	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Chloroethane	<0.0048		0.0048	0.0013	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Chloroform	<0.0048		0.0048	0.00055	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Dibromochloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,1-Dichloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,1-Dichloroethene	<0.0048		0.0048	0.00077	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Ethylbenzene	<0.0048		0.0048	0.00096	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00079	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00096	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Tetrachloroethene	<0.0048		0.0048	0.00073	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Toluene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00086	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00065	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Trichloroethene	<0.0048		0.0048	0.00079	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1
Xylenes, Total	<0.0096		0.0096	0.00043	mg/Kg	☼	11/08/12 07:30	11/14/12 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		76 - 120	11/08/12 07:30	11/14/12 12:57	1
Dibromofluoromethane	91		73 - 122	11/08/12 07:30	11/14/12 12:57	1
1,2-Dichloroethane-d4 (Surr)	92		74 - 123	11/08/12 07:30	11/14/12 12:57	1
Toluene-d8 (Surr)	103		72 - 122	11/08/12 07:30	11/14/12 12:57	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-1**

**Lab Sample ID: 500-52177-1**

**Date Collected: 11/08/12 07:30**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 83.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Fluorene	<0.037		0.037	0.0086	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
N-Nitrosodiphenylamine	<0.19	*	0.19	0.051	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Anthracene	<0.037	*	0.037	0.0088	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
<b>Fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.037	0.015	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
<b>Chrysene</b>	<b>0.0095</b>	<b>J</b>	0.037	0.0085	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-1**

**Lab Sample ID: 500-52177-1**

Date Collected: 11/08/12 07:30

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.021</b>	<b>J</b>	0.037	0.0073	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
<b>Benzo[a]pyrene</b>	<b>0.0094</b>	<b>J</b>	0.037	0.0069	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Dibenz(a,h)anthracene	<0.037		0.037	0.011	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/19/12 16:41	11/28/12 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		30 - 110	11/19/12 16:41	11/28/12 22:57	1
Phenol-d5	66		31 - 110	11/19/12 16:41	11/28/12 22:57	1
Nitrobenzene-d5	64		30 - 115	11/19/12 16:41	11/28/12 22:57	1
2-Fluorobiphenyl	70		30 - 119	11/19/12 16:41	11/28/12 22:57	1
2,4,6-Tribromophenol	72		35 - 137	11/19/12 16:41	11/28/12 22:57	1
Terphenyl-d14	78		36 - 134	11/19/12 16:41	11/28/12 22:57	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Arsenic</b>	<b>5.3</b>		0.57	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Barium</b>	<b>90</b>		0.57	0.068	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Beryllium</b>	<b>0.74</b>		0.23	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Boron</b>	<b>4.9</b>		2.8	0.53	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Cadmium</b>	<b>0.25</b>		0.11	0.028	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Calcium</b>	<b>5100</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Chromium</b>	<b>17</b>		0.57	0.095	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Cobalt</b>	<b>6.0</b>		0.28	0.030	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Copper</b>	<b>15</b>		0.57	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Iron</b>	<b>16000</b>		11	4.9	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Lead</b>	<b>16</b>	<b>B</b>	0.28	0.098	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Magnesium</b>	<b>4400</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Manganese</b>	<b>160</b>		0.57	0.080	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Nickel</b>	<b>17</b>		0.57	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Potassium</b>	<b>1300</b>		28	3.2	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Selenium</b>	<b>0.21</b>	<b>J</b>	0.57	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Sodium</b>	<b>270</b>	<b>B</b>	57	10	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Vanadium</b>	<b>22</b>		0.28	0.043	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1
<b>Zinc</b>	<b>43</b>		1.1	0.39	mg/Kg	☼	11/12/12 09:55	11/17/12 11:53	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 15:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 15:08	1
<b>Boron</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 15:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 15:08	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-1**

**Lab Sample ID: 500-52177-1**

Date Collected: 11/08/12 07:30

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:08	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 15:08	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:08	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 15:08	1
<b>Lead</b>	<b>0.0098</b>		0.0075	0.0050	mg/L		11/20/12 12:00	11/21/12 04:47	1
<b>Manganese</b>	<b>6.8</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:08	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:08	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 15:08	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 15:08	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 15:30	11/17/12 15:08	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		11/16/12 15:30	11/26/12 12:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 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		11/16/12 13:30	11/19/12 11:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0073	mg/Kg	☼	11/19/12 17:00	11/20/12 10:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.23</b>		0.200	0.200	SU			11/13/12 10:08	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-2**

**Lab Sample ID: 500-52177-2**

Date Collected: 11/08/12 07:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014		0.0053	0.0023	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Benzene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Chloroethane	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,1,2,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/08/12 07:35	11/14/12 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		76 - 120	11/08/12 07:35	11/14/12 13:20	1
Dibromofluoromethane	89		73 - 122	11/08/12 07:35	11/14/12 13:20	1
1,2-Dichloroethane-d4 (Surr)	84		74 - 123	11/08/12 07:35	11/14/12 13:20	1
Toluene-d8 (Surr)	95		72 - 122	11/08/12 07:35	11/14/12 13:20	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-2**

**Lab Sample ID: 500-52177-2**

Date Collected: 11/08/12 07:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
4-Chloroaniline	<0.79		0.79	0.12	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Hexachlorocyclopentadiene	<0.79		0.79	0.18	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2-Nitroaniline	<0.20		0.20	0.071	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,4-Dinitrophenol	<0.79		0.79	0.20	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Acenaphthylene	<0.039		0.039	0.0090	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
4-Nitrophenol	<0.79		0.79	0.21	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Fluorene	<0.039		0.039	0.0089	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Hexachlorobenzene	<0.079		0.079	0.0078	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Pentachlorophenol	<0.79		0.79	0.20	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
N-Nitrosodiphenylamine	<0.20	*	0.20	0.053	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Phenanthrene	<0.039		0.039	0.016	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Anthracene	<0.039	*	0.039	0.0093	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.014	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Benzo[a]anthracene</b>	<b>0.0087</b>	<b>J</b>	0.039	0.0082	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Chrysene</b>	<b>0.019</b>	<b>J</b>	0.039	0.0089	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-2**

**Lab Sample ID: 500-52177-2**

Date Collected: 11/08/12 07:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.057</b>	<b>J</b>	0.20	0.052	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Di-n-octyl phthalate</b>	<b>0.13</b>	<b>J</b>	0.20	0.080	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Benzo[b]fluoranthene</b>	<b>0.043</b>		0.039	0.0076	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Benzo[a]pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.0072	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.023</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Dibenz[a,h]anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/19/12 16:41	11/28/12 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		30 - 110				11/19/12 16:41	11/28/12 23:21	1
Phenol-d5	78		31 - 110				11/19/12 16:41	11/28/12 23:21	1
Nitrobenzene-d5	79		30 - 115				11/19/12 16:41	11/28/12 23:21	1
2-Fluorobiphenyl	84		30 - 119				11/19/12 16:41	11/28/12 23:21	1
2,4,6-Tribromophenol	95		35 - 137				11/19/12 16:41	11/28/12 23:21	1
Terphenyl-d14	106		36 - 134				11/19/12 16:41	11/28/12 23:21	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Arsenic</b>	<b>8.2</b>		0.57	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Barium</b>	<b>31</b>		0.57	0.068	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Beryllium</b>	<b>0.43</b>		0.23	0.017	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Boron</b>	<b>5.6</b>		2.8	0.53	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Cadmium</b>	<b>0.29</b>		0.11	0.028	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Calcium</b>	<b>21000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Chromium</b>	<b>9.6</b>		0.57	0.095	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Cobalt</b>	<b>6.8</b>		0.28	0.030	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Copper</b>	<b>18</b>		0.57	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Iron</b>	<b>15000</b>		11	4.9	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Lead</b>	<b>9.8</b>	<b>B</b>	0.28	0.098	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Magnesium</b>	<b>14000</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Manganese</b>	<b>350</b>		0.57	0.080	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Nickel</b>	<b>16</b>		0.57	0.12	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Potassium</b>	<b>1200</b>		28	3.2	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Sodium</b>	<b>220</b>	<b>B</b>	57	10	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Vanadium</b>	<b>14</b>		0.28	0.043	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1
<b>Zinc</b>	<b>36</b>		1.1	0.39	mg/Kg	☼	11/12/12 09:55	11/17/12 11:59	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 15:30	11/17/12 15:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/17/12 15:47	1
<b>Boron</b>	<b>0.052</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 15:30	11/17/12 15:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/17/12 15:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B20-2**

**Lab Sample ID: 500-52177-2**

Date Collected: 11/08/12 07:35

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:47	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 15:47	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:47	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 15:30	11/17/12 15:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/17/12 15:47	1
<b>Manganese</b>	<b>2.7</b>		0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:47	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 15:30	11/17/12 15:47	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/17/12 15:47	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/17/12 15:47	1
<b>Zinc</b>	<b>0.053</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 15:30	11/17/12 15:47	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		11/16/12 15:30	11/26/12 12:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 12:54	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		11/16/12 13:30	11/19/12 11:56	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.020</b>		0.019	0.0073	mg/Kg	☼	11/19/12 17:00	11/20/12 10:18	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			11/13/12 10:11	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-1**

**Lab Sample ID: 500-52177-22**

Date Collected: 11/08/12 10:20

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0082		0.0050	0.0021	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Chloroethane	<0.0050		0.0050	0.0013	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/08/12 10:20	11/15/12 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		76 - 120	11/08/12 10:20	11/15/12 05:10	1
Dibromofluoromethane	99		73 - 122	11/08/12 10:20	11/15/12 05:10	1
1,2-Dichloroethane-d4 (Surr)	94		74 - 123	11/08/12 10:20	11/15/12 05:10	1
Toluene-d8 (Surr)	97		72 - 122	11/08/12 10:20	11/15/12 05:10	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-1**

**Lab Sample ID: 500-52177-22**

Date Collected: 11/08/12 10:20

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Naphthalene	<0.037		0.037	0.0073	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
3-Nitroaniline	<0.37		0.37	0.073	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Acenaphthene</b>	<b>0.021</b>	<b>J</b>	0.037	0.011	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Fluorene</b>	<b>0.020</b>	<b>J</b>	0.037	0.0086	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Phenanthrene</b>	<b>0.38</b>		0.037	0.016	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Anthracene</b>	<b>0.025</b>	<b>J</b>	0.037	0.0088	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Fluoranthene</b>	<b>0.39</b>		0.037	0.015	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Pyrene</b>	<b>0.34</b>		0.037	0.014	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Benzo[a]anthracene</b>	<b>0.090</b>		0.037	0.0079	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Chrysene</b>	<b>0.14</b>		0.037	0.0085	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-1**

**Lab Sample ID: 500-52177-22**

Date Collected: 11/08/12 10:20

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Benzo[b]fluoranthene</b>	<b>0.18</b>		0.037	0.0073	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Benzo[k]fluoranthene</b>	<b>0.064</b>		0.037	0.0090	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Benzo[a]pyrene</b>	<b>0.078</b>		0.037	0.0069	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.062</b>		0.037	0.013	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Dibenz(a,h)anthracene</b>	<b>0.021</b>	J	0.037	0.011	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
<b>Benzo[g,h,i]perylene</b>	<b>0.075</b>		0.037	0.013	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/19/12 17:01	11/29/12 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110	11/19/12 17:01	11/29/12 07:10	1
Phenol-d5	66		31 - 110	11/19/12 17:01	11/29/12 07:10	1
Nitrobenzene-d5	65		30 - 115	11/19/12 17:01	11/29/12 07:10	1
2-Fluorobiphenyl	69		30 - 119	11/19/12 17:01	11/29/12 07:10	1
2,4,6-Tribromophenol	76		35 - 137	11/19/12 17:01	11/29/12 07:10	1
Terphenyl-d14	90		36 - 134	11/19/12 17:01	11/29/12 07:10	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Arsenic</b>	<b>3.6</b>		0.58	0.13	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Barium</b>	<b>59</b>		0.58	0.069	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Beryllium</b>	<b>0.67</b>		0.23	0.017	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Boron</b>	<b>5.8</b>		2.9	0.54	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Calcium</b>	<b>13000</b>	B	12	2.0	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Chromium</b>	<b>15</b>		0.58	0.097	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Cobalt</b>	<b>7.9</b>		0.29	0.030	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Copper</b>	<b>16</b>		0.58	0.16	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Iron</b>	<b>14000</b>		12	5.0	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Lead</b>	<b>17</b>	B	0.29	0.10	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Magnesium</b>	<b>8700</b>		5.8	1.1	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Manganese</b>	<b>210</b>		0.58	0.082	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Nickel</b>	<b>19</b>		0.58	0.13	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Potassium</b>	<b>1600</b>		29	3.3	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
Selenium	<0.58		0.58	0.17	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Sodium</b>	<b>110</b>	B	58	11	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
Thallium	<0.58		0.58	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Vanadium</b>	<b>19</b>		0.29	0.044	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1
<b>Zinc</b>	<b>46</b>		1.2	0.40	mg/Kg	☼	11/10/12 10:13	11/14/12 07:24	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.51</b>		0.50	0.010	mg/L		11/16/12 09:55	11/16/12 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 09:55	11/16/12 16:55	1
<b>Boron</b>	<b>0.14</b>	J	0.50	0.050	mg/L		11/16/12 09:55	11/16/12 16:55	1
<b>Cadmium</b>	<b>0.0021</b>	J	0.0050	0.0020	mg/L		11/16/12 09:55	11/16/12 16:55	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-1**

**Lab Sample ID: 500-52177-22**

Date Collected: 11/08/12 10:20

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 16:55	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 16:55	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 16:55	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 09:55	11/16/12 16:55	1
<b>Lead</b>	<b>0.0072</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 16:55	1
<b>Manganese</b>	<b>6.3</b>		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 16:55	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 09:55	11/16/12 16:55	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 09:55	11/16/12 16:55	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 16:55	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 09:55	11/16/12 16:55	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		11/16/12 09:55	11/26/12 13:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 09:55	11/26/12 13:17	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		11/16/12 13:30	11/19/12 10:58	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.022</b>		0.019	0.0072	mg/Kg	☼	11/19/12 17:00	11/20/12 12:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.55</b>		0.200	0.200	SU			11/13/12 11:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-2**

**Lab Sample ID: 500-52177-23**

Date Collected: 11/08/12 10:25

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 96.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0066		0.0066	0.0028	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Benzene	<0.0066		0.0066	0.00090	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Bromodichloromethane	<0.0066		0.0066	0.0011	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Bromoform	<0.0066		0.0066	0.0015	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Bromomethane	<0.0066		0.0066	0.0020	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
2-Butanone (MEK)	<0.0066		0.0066	0.0024	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Carbon disulfide	<0.0066		0.0066	0.00098	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Carbon tetrachloride	<0.0066		0.0066	0.0012	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Chlorobenzene	<0.0066		0.0066	0.00067	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Chloroethane	<0.0066	*	0.0066	0.0018	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Chloroform	<0.0066		0.0066	0.00076	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Chloromethane	<0.0066		0.0066	0.0014	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
cis-1,2-Dichloroethene	<0.0066		0.0066	0.00093	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
cis-1,3-Dichloropropene	<0.0066		0.0066	0.00086	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Dibromochloromethane	<0.0066		0.0066	0.0011	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,1-Dichloroethane	<0.0066		0.0066	0.0010	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,2-Dichloroethane	<0.0066		0.0066	0.00097	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,1-Dichloroethene	<0.0066		0.0066	0.0011	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,2-Dichloropropane	<0.0066		0.0066	0.0010	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,3-Dichloropropene, Total	<0.0066		0.0066	0.00086	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Ethylbenzene	<0.0066		0.0066	0.0013	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
2-Hexanone	<0.0066	*	0.0066	0.0019	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Methylene Chloride	<0.0066		0.0066	0.0018	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
4-Methyl-2-pentanone (MIBK)	<0.0066		0.0066	0.0017	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Methyl tert-butyl ether	<0.0066		0.0066	0.0011	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Styrene	<0.0066		0.0066	0.00086	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,1,1,2-Tetrachloroethane	<0.0066		0.0066	0.0013	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Tetrachloroethene	<0.0066		0.0066	0.0010	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Toluene	<0.0066		0.0066	0.00092	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
trans-1,2-Dichloroethene	<0.0066		0.0066	0.00090	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
trans-1,3-Dichloropropene	<0.0066		0.0066	0.0012	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,1,1-Trichloroethane	<0.0066		0.0066	0.00098	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
1,1,2-Trichloroethane	<0.0066		0.0066	0.00090	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Trichloroethene	<0.0066		0.0066	0.0011	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Vinyl chloride	<0.0066		0.0066	0.0014	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1
Xylenes, Total	<0.013		0.013	0.00060	mg/Kg	☼	11/08/12 10:25	11/16/12 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/08/12 10:25	11/16/12 10:33	1
Dibromofluoromethane	82		73 - 122	11/08/12 10:25	11/16/12 10:33	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/08/12 10:25	11/16/12 10:33	1
Toluene-d8 (Surr)	108		72 - 122	11/08/12 10:25	11/16/12 10:33	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.054	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
1,3-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
1,4-Dichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
1,2-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-2**

**Lab Sample ID: 500-52177-23**

Date Collected: 11/08/12 10:25

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 96.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
N-Nitrosodi-n-propylamine	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Hexachloroethane	<0.17		0.17	0.036	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2-Chlorophenol	<0.17		0.17	0.049	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Nitrobenzene	<0.034		0.034	0.011	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2,4-Dimethylphenol	<0.34		0.34	0.11	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Hexachlorobutadiene	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Naphthalene</b>	<b>0.012</b>	<b>J</b>	0.034	0.0066	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2,4-Dichlorophenol	<0.34		0.34	0.10	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
4-Chloroaniline	<0.69		0.69	0.10	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2,4,6-Trichlorophenol	<0.34		0.34	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2,4,5-Trichlorophenol	<0.34		0.34	0.098	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Hexachlorocyclopentadiene	<0.69		0.69	0.16	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2-Methylnaphthalene	<0.17		0.17	0.044	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2-Nitroaniline	<0.17		0.17	0.062	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
4-Chloro-3-methylphenol	<0.34		0.34	0.16	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>2,6-Dinitrotoluene</b>	<b>0.14</b>	<b>J</b>	0.17	0.041	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2-Nitrophenol	<0.34		0.34	0.054	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
3-Nitroaniline	<0.34		0.34	0.066	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2,4-Dinitrophenol	<0.69		0.69	0.17	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Acenaphthylene	<0.034		0.034	0.0079	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
2,4-Dinitrotoluene	<0.17		0.17	0.052	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Acenaphthene</b>	<b>0.024</b>	<b>J</b>	0.034	0.010	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Dibenzofuran	<0.17		0.17	0.041	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
4-Nitrophenol	<0.69		0.69	0.18	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Fluorene</b>	<b>0.013</b>	<b>J</b>	0.034	0.0078	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
4-Nitroaniline	<0.34		0.34	0.070	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Hexachlorobenzene	<0.069		0.069	0.0067	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.054	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Pentachlorophenol	<0.69		0.69	0.17	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
N-Nitrosodiphenylamine	<0.17		0.17	0.046	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
4,6-Dinitro-2-methylphenol	<0.34		0.34	0.083	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Phenanthrene</b>	<b>0.18</b>		0.034	0.014	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Anthracene	<0.034		0.034	0.0080	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Carbazole	<0.17		0.17	0.048	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Di-n-butyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Fluoranthene</b>	<b>0.14</b>		0.034	0.014	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Pyrene</b>	<b>0.13</b>		0.034	0.012	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Butyl benzyl phthalate	<0.17		0.17	0.043	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Benzo[a]anthracene</b>	<b>0.026</b>	<b>J</b>	0.034	0.0072	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Chrysene</b>	<b>0.047</b>		0.034	0.0077	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-2**

**Lab Sample ID: 500-52177-23**

Date Collected: 11/08/12 10:25

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 96.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.17		0.17	0.029	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.045	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Di-n-octyl phthalate	<0.17		0.17	0.069	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Benzo[b]fluoranthene</b>	<b>0.064</b>		0.034	0.0066	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Benzo[k]fluoranthene</b>	<b>0.055</b>		0.034	0.0082	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Benzo[a]pyrene</b>	<b>0.030</b>	<b>J</b>	0.034	0.0062	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.024</b>	<b>J</b>	0.034	0.012	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0096	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
<b>Benzo[g,h,i]perylene</b>	<b>0.024</b>	<b>J</b>	0.034	0.012	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
3 & 4 Methylphenol	<0.17		0.17	0.065	mg/Kg	☼	11/19/12 17:01	11/29/12 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110				11/19/12 17:01	11/29/12 07:34	1
Phenol-d5	62		31 - 110				11/19/12 17:01	11/29/12 07:34	1
Nitrobenzene-d5	59		30 - 115				11/19/12 17:01	11/29/12 07:34	1
2-Fluorobiphenyl	65		30 - 119				11/19/12 17:01	11/29/12 07:34	1
2,4,6-Tribromophenol	66		35 - 137				11/19/12 17:01	11/29/12 07:34	1
Terphenyl-d14	86		36 - 134				11/19/12 17:01	11/29/12 07:34	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Arsenic</b>	<b>1.1</b>		0.50	0.11	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Barium</b>	<b>36</b>		0.50	0.059	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Beryllium</b>	<b>0.34</b>		0.20	0.015	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Boron</b>	<b>5.9</b>		2.5	0.47	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Cadmium</b>	<b>0.32</b>		0.10	0.025	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Calcium</b>	<b>120000</b>	<b>B</b>	100	18	mg/Kg	☼	11/10/12 10:13	11/15/12 02:29	10
<b>Chromium</b>	<b>7.0</b>		0.50	0.083	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Cobalt</b>	<b>3.5</b>		0.25	0.026	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Copper</b>	<b>21</b>		0.50	0.14	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Iron</b>	<b>5300</b>		10	4.3	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Lead</b>	<b>12</b>	<b>B</b>	0.25	0.086	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Magnesium</b>	<b>71000</b>		50	9.7	mg/Kg	☼	11/10/12 10:13	11/15/12 02:29	10
<b>Manganese</b>	<b>190</b>		0.50	0.070	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Nickel</b>	<b>11</b>		0.50	0.11	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Potassium</b>	<b>1100</b>		25	2.8	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Silver</b>	<b>0.056</b>	<b>J</b>	0.25	0.030	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Sodium</b>	<b>280</b>	<b>B</b>	50	9.1	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Vanadium</b>	<b>8.7</b>		0.25	0.038	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1
<b>Zinc</b>	<b>54</b>		1.0	0.34	mg/Kg	☼	11/10/12 10:13	11/14/12 07:30	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.081</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 09:55	11/16/12 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 09:55	11/16/12 17:00	1
<b>Boron</b>	<b>0.058</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 09:55	11/16/12 17:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 09:55	11/16/12 17:00	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B19-2**

**Lab Sample ID: 500-52177-23**

Date Collected: 11/08/12 10:25

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:00	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:00	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 09:55	11/16/12 17:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 17:00	1
<b>Manganese</b>	<b>0.46</b>		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:00	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:00	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 09:55	11/16/12 17:00	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:00	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 09:55	11/16/12 17:00	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		11/16/12 09:55	11/26/12 13:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 09:55	11/26/12 13:18	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	<b>^</b>	0.00020	0.000020	mg/L		11/16/12 13:30	11/19/12 10:59	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.048</b>		0.015	0.0058	mg/Kg	☼	11/19/12 17:00	11/20/12 12:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.09</b>		0.200	0.200	SU			11/13/12 11:23	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B09-1**

**Lab Sample ID: 500-52177-24**

Date Collected: 11/08/12 10:30

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0029	J	0.0049	0.0021	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Chlorobenzene	<0.0049		0.0049	0.00050	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Chloroethane	<0.0049		0.0049	0.0013	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,1-Dichloroethane	<0.0049		0.0049	0.00078	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Ethylbenzene	<0.0049		0.0049	0.00099	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
2-Hexanone	<0.0049		0.0049	0.0014	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00081	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00099	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Tetrachloroethene	<0.0049		0.0049	0.00075	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Toluene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00088	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00067	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Trichloroethene	<0.0049		0.0049	0.00081	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1
Xylenes, Total	<0.0098		0.0098	0.00044	mg/Kg	☼	11/08/12 10:30	11/15/12 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		76 - 120	11/08/12 10:30	11/15/12 05:55	1
Dibromofluoromethane	106		73 - 122	11/08/12 10:30	11/15/12 05:55	1
1,2-Dichloroethane-d4 (Surr)	101		74 - 123	11/08/12 10:30	11/15/12 05:55	1
Toluene-d8 (Surr)	103		72 - 122	11/08/12 10:30	11/15/12 05:55	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.97		0.97	0.31	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Bis(2-chloroethyl)ether	<0.97		0.97	0.29	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
1,3-Dichlorobenzene	<0.97		0.97	0.20	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
1,4-Dichlorobenzene	<0.97		0.97	0.20	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
1,2-Dichlorobenzene	<0.97		0.97	0.21	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B09-1**

**Lab Sample ID: 500-52177-24**

**Date Collected: 11/08/12 10:30**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 83.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.97		0.97	0.26	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,2'-oxybis[1-chloropropane]	<0.97		0.97	0.21	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
N-Nitrosodi-n-propylamine	<0.97		0.97	0.25	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Hexachloroethane	<0.97		0.97	0.21	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2-Chlorophenol	<0.97		0.97	0.28	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Nitrobenzene	<0.19		0.19	0.060	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Bis(2-chloroethoxy)methane	<0.97		0.97	0.21	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
1,2,4-Trichlorobenzene	<0.97		0.97	0.22	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Isophorone	<0.97		0.97	0.22	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,4-Dimethylphenol	<1.9		1.9	0.61	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Hexachlorobutadiene	<0.97		0.97	0.25	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Naphthalene	<0.19		0.19	0.037	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,4-Dichlorophenol	<1.9		1.9	0.59	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
4-Chloroaniline	<3.9		3.9	0.59	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,4,6-Trichlorophenol	<1.9		1.9	0.24	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,4,5-Trichlorophenol	<1.9		1.9	0.55	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Hexachlorocyclopentadiene	<3.9		3.9	0.90	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2-Methylnaphthalene	<0.97		0.97	0.25	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2-Nitroaniline	<0.97		0.97	0.35	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2-Chloronaphthalene	<0.97		0.97	0.22	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
4-Chloro-3-methylphenol	<1.9		1.9	0.92	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,6-Dinitrotoluene	<0.97		0.97	0.23	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2-Nitrophenol	<1.9		1.9	0.30	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
3-Nitroaniline	<1.9		1.9	0.37	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Dimethyl phthalate	<0.97		0.97	0.24	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,4-Dinitrophenol	<3.9		3.9	0.99	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Acenaphthylene	<0.19		0.19	0.044	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
2,4-Dinitrotoluene	<0.97		0.97	0.30	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Acenaphthene	<0.19		0.19	0.058	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Dibenzofuran	<0.97		0.97	0.23	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
4-Nitrophenol	<3.9		3.9	1.0	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Fluorene	<0.19		0.19	0.044	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
4-Nitroaniline	<1.9		1.9	0.40	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
4-Bromophenyl phenyl ether	<0.97		0.97	0.22	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Hexachlorobenzene	<0.39		0.39	0.038	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Diethyl phthalate	<0.97		0.97	0.32	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
4-Chlorophenyl phenyl ether	<0.97		0.97	0.30	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Pentachlorophenol	<3.9		3.9	0.98	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
N-Nitrosodiphenylamine	<0.97		0.97	0.26	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	0.47	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Phenanthrene	<0.19		0.19	0.081	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Anthracene	<0.19		0.19	0.045	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Carbazole	<0.97		0.97	0.27	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Di-n-butyl phthalate	<0.97		0.97	0.24	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Fluoranthene	<0.19		0.19	0.079	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Pyrene	<0.19		0.19	0.070	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Butyl benzyl phthalate	<0.97		0.97	0.24	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Benzo[a]anthracene	<0.19		0.19	0.040	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5
Chrysene	<0.19		0.19	0.044	mg/Kg	*	11/19/12 17:01	11/29/12 08:46	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B09-1**

**Lab Sample ID: 500-52177-24**

Date Collected: 11/08/12 10:30

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 83.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.97		0.97	0.16	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Bis(2-ethylhexyl) phthalate	<0.97		0.97	0.26	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Di-n-octyl phthalate	<0.97		0.97	0.39	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Benzo[b]fluoranthene	<0.19		0.19	0.038	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Benzo[k]fluoranthene	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Benzo[a]pyrene	<0.19		0.19	0.035	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Indeno[1,2,3-cd]pyrene	<0.19		0.19	0.065	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Dibenz(a,h)anthracene	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
Benzo[g,h,i]perylene	<0.19		0.19	0.065	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5
3 & 4 Methylphenol	<0.97		0.97	0.37	mg/Kg	☼	11/19/12 17:01	11/29/12 08:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		30 - 110	11/19/12 17:01	11/29/12 08:46	5
Phenol-d5	76		31 - 110	11/19/12 17:01	11/29/12 08:46	5
Nitrobenzene-d5	76		30 - 115	11/19/12 17:01	11/29/12 08:46	5
2-Fluorobiphenyl	75		30 - 119	11/19/12 17:01	11/29/12 08:46	5
2,4,6-Tribromophenol	89		35 - 137	11/19/12 17:01	11/29/12 08:46	5
Terphenyl-d14	96		36 - 134	11/19/12 17:01	11/29/12 08:46	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Arsenic</b>	<b>4.2</b>		0.57	0.12	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Barium</b>	<b>77</b>		0.57	0.068	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Beryllium</b>	<b>0.59</b>		0.23	0.017	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Boron</b>	<b>5.0</b>		2.8	0.53	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Cadmium</b>	<b>0.32</b>		0.11	0.028	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Calcium</b>	<b>54000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Chromium</b>	<b>13</b>		0.57	0.095	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Cobalt</b>	<b>5.3</b>		0.28	0.030	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Copper</b>	<b>14</b>		0.57	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Iron</b>	<b>13000</b>		11	4.9	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Lead</b>	<b>19</b>	<b>B</b>	0.28	0.098	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Magnesium</b>	<b>34000</b>		5.7	1.1	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Manganese</b>	<b>300</b>		0.57	0.080	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Nickel</b>	<b>14</b>		0.57	0.12	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Potassium</b>	<b>1500</b>		28	3.2	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Sodium</b>	<b>240</b>	<b>B</b>	57	10	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Vanadium</b>	<b>19</b>		0.28	0.043	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1
<b>Zinc</b>	<b>42</b>		1.1	0.39	mg/Kg	☼	11/10/12 10:13	11/14/12 07:36	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.010	mg/L		11/16/12 09:55	11/16/12 17:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 09:55	11/16/12 17:05	1
<b>Boron</b>	<b>0.098</b>	<b>J</b>	0.50	0.050	mg/L		11/16/12 09:55	11/16/12 17:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 09:55	11/16/12 17:05	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

**Client Sample ID: 2034A-24-B09-1**

**Lab Sample ID: 500-52177-24**

Date Collected: 11/08/12 10:30

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:05	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:05	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:05	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 09:55	11/16/12 17:05	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 17:05	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:05	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:05	1
<b>Selenium</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		11/16/12 09:55	11/16/12 17:05	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:05	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 09:55	11/16/12 17:05	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		11/16/12 09:55	11/26/12 13:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 09:55	11/26/12 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		11/16/12 13:30	11/19/12 11:05	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.032</b>		0.019	0.0074	mg/Kg	☼	11/19/12 17:00	11/20/12 12:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>7.90</b>		0.200	0.200	SU			11/13/12 11:27	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	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

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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	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

## 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52177-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> <u>IL30</u>
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200	Project No.: <u>IDOT2011-053</u>
Contact: Colleen Grey email: cgrey@andrews-eng.com	Contact: Dick Wright email: richard.wright@testamericainc.com	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>Special Instructions:</b> See Table 2 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.	<b>Sampler:</b> <u>MJN</u>	<b>COC No.:</b> <u>1</u> of <u>5</u>
		<b>Lab Job No.:</b> <u>500-52177</u>
		<b>Sample Temp.:</b> <u>(36) (41)</u>

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES												Comments
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals /mg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization		
1	2034A-24-B20-1	11-8-12	7:30	Soil	X	X	<del>XXXXXXXXXXXXXXXXXXXX</del>					X	X	X	X	0-4'	
2	2034A-24-B20-2		7:35													A'-0'	
3	2034A-24-B21-1		7:40													0-4'	
4	2034A-24-B21-2		7:45													4-8'	
5	2034A-18-B07-1		7:50													0-4'	
6	2034A-18-B07-2		7:55													4-8'	
7	2034A-21-B04-1		8:00													0-5'	
8	2034A-21-B04-2		8:05													5-10'	
9	2034A-21-B03-1		8:10													0-5'	
10	2034A-21-B03-2		8:15													5-10'	
11	2034A-18-B02-1		8:20													0-4'	
12	2034A-18-B02-2		8:25													4-10'	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1511</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/8/12 1605</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u></u>	Received by: <u></u>	Date/Time: <u></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		<b>Project Name:</b> JL 30 <b>Project No.:</b> IDOT2011-053 <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 5 <b>Lab Job No:</b> 500-52177 <b>Sample Temp:</b>									
<b>Special Instructions:</b> See Table A 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>Comments</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	
13	2034A-18-B04-1	11-8-12	9:10	Soil	X	X					X	X	X		0-4'
14	2034A-18-B04-2		9:15								X	X	X		4-8'
15	2034A-18-B01-1		9:20								X	X	X		0-4'
16	2034A-18-B01-2		9:25								X	X	X		4-8'
17	2034A-18-B01-1 DUP		9:30								X	X	X		0-4'
18	2034A-18-B05-1		9:35								X	X	X		0-4'
19	2034A-18-B05-2		9:40								X	X	X		4-8'
20	2034A-18-B06-1		10:05								X	X	X		0-4'
21	2034A-18-B06-2		10:10								X	X	X		4-8'
22	2034A-24-B19-1		10:20								X	X	X		0-4'
23	2034A-24-B19-2		10:25								X	X	X		4-8'
24	2034A-24-B09-1		10:30								X	X	X		0-4'
Relinquished by: <i>Sam Mink</i>		Date/Time: 11/8/12		1511	Received by: <i>Sam Mink</i>		Date/Time: 11/8/12 1511								
Relinquished by: <i>Sam Mink</i>		Date/Time: 11/8/12		1605	Received by: <i>Sam Mink</i>		Date/Time: 11/8/12 1605								
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: 500-52267-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
12/6/2012 4:13:57 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
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- 13
- 14
- 15



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-1**

**Lab Sample ID: 500-52267-9**

**Date Collected: 11/12/12 10:50**

**Matrix: Solid**

**Date Received: 11/13/12 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	0.0019	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Benzene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Bromodichloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Carbon tetrachloride	<0.0044		0.0044	0.00081	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Chloromethane	<0.0044		0.0044	0.00093	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00063	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,1-Dichloroethene	<0.0044		0.0044	0.00072	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,2-Dichloropropane	<0.0044		0.0044	0.00068	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Ethylbenzene	<0.0044		0.0044	0.00090	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Tetrachloroethene	<0.0044		0.0044	0.00068	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00080	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00061	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Vinyl chloride	<0.0044		0.0044	0.00093	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1
Xylenes, Total	<0.0089		0.0089	0.00040	mg/Kg	☼	11/12/12 10:50	11/16/12 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/12/12 10:50	11/16/12 03:06	1
Dibromofluoromethane	107		73 - 122	11/12/12 10:50	11/16/12 03:06	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/12/12 10:50	11/16/12 03:06	1
Toluene-d8 (Surr)	100		72 - 122	11/12/12 10:50	11/16/12 03:06	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.059	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-1**

**Lab Sample ID: 500-52267-9**

**Date Collected: 11/12/12 10:50**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 85.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Nitrobenzene	<0.037		0.037	0.012	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Naphthalene	<0.037		0.037	0.0072	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,4,6-Trichlorophenol	<0.37		0.37	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Hexachlorocyclopentadiene	<0.76		0.76	0.17	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2-Nitrophenol	<0.37		0.37	0.059	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
3-Nitroaniline	<0.37		0.37	0.072	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Acenaphthylene	<0.037		0.037	0.0086	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Fluorene	<0.037		0.037	0.0085	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
4-Nitroaniline	<0.37		0.37	0.077	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.091	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Phenanthrene	<0.037		0.037	0.016	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Anthracene	<0.037		0.037	0.0088	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Pyrene	<0.037		0.037	0.014	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Benzo[a]anthracene	<0.037		0.037	0.0079	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Chrysene	<0.037		0.037	0.0085	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-1**

**Lab Sample ID: 500-52267-9**

Date Collected: 11/12/12 10:50

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 85.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.050	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Di-n-octyl phthalate	<0.19		0.19	0.076	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Benzo[b]fluoranthene	<0.037		0.037	0.0073	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Benzo[k]fluoranthene	<0.037		0.037	0.0090	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Benzo[a]pyrene	<0.037		0.037	0.0068	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Benzo[g,h,i]perylene	<0.037		0.037	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/26/12 07:16	12/05/12 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		30 - 110				11/26/12 07:16	12/05/12 23:13	1
Phenol-d5	67		31 - 110				11/26/12 07:16	12/05/12 23:13	1
Nitrobenzene-d5	72		30 - 115				11/26/12 07:16	12/05/12 23:13	1
2-Fluorobiphenyl	78		30 - 119				11/26/12 07:16	12/05/12 23:13	1
2,4,6-Tribromophenol	96		35 - 137				11/26/12 07:16	12/05/12 23:13	1
Terphenyl-d14	80		36 - 134				11/26/12 07:16	12/05/12 23:13	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Arsenic</b>	<b>12</b>		0.53	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Barium</b>	<b>25</b>		0.53	0.063	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Beryllium</b>	<b>0.44</b>		0.21	0.016	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Boron</b>	<b>2.2 J</b>		2.7	0.49	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Cadmium</b>	<b>0.26</b>		0.11	0.026	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Calcium</b>	<b>1200 B</b>		11	1.9	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Chromium</b>	<b>8.6</b>		0.53	0.089	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Cobalt</b>	<b>3.9</b>		0.27	0.028	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Copper</b>	<b>7.2</b>		0.53	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Iron</b>	<b>29000</b>		11	4.6	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Lead</b>	<b>10 B</b>		0.27	0.091	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Magnesium</b>	<b>1200 B</b>		5.3	1.0	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Manganese</b>	<b>48</b>		0.53	0.075	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Nickel</b>	<b>10</b>		0.53	0.12	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Potassium</b>	<b>500</b>		27	3.0	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Selenium</b>	<b>0.26 J</b>		0.53	0.15	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Sodium</b>	<b>78 B</b>		53	9.7	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Vanadium</b>	<b>15</b>		0.27	0.040	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1
<b>Zinc</b>	<b>27</b>		1.1	0.36	mg/Kg	☼	11/13/12 09:20	11/20/12 14:22	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.21 J</b>		0.50	0.010	mg/L		11/19/12 15:30	11/27/12 20:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 20:47	1
<b>Boron</b>	<b>0.87</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 20:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 20:47	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-1**

**Lab Sample ID: 500-52267-9**

Date Collected: 11/12/12 10:50

Matrix: Solid

Date Received: 11/13/12 07:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 20:47	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:47	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 20:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 20:47	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:47	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:47	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 20:47	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 20:47	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 20:47	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		11/19/12 15:30	12/01/12 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:43	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000077</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 12:44	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.017</b>	<b>J</b>	0.018	0.0069	mg/Kg	☼	11/27/12 17:00	11/28/12 14:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.52</b>		0.200	0.200	SU			11/17/12 09:58	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-2**

**Lab Sample ID: 500-52267-10**

**Date Collected: 11/12/12 10:55**

**Matrix: Solid**

**Date Received: 11/13/12 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	0.0021	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Benzene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Bromoform	<0.0049		0.0049	0.0011	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Bromomethane	<0.0049		0.0049	0.0015	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
2-Butanone (MEK)	<0.0049		0.0049	0.0018	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Carbon disulfide	<0.0049		0.0049	0.00073	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Carbon tetrachloride	<0.0049		0.0049	0.00089	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Chlorobenzene	<0.0049		0.0049	0.00049	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Chloroethane	<0.0049	*	0.0049	0.0013	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Chloroform	<0.0049		0.0049	0.00056	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Chloromethane	<0.0049		0.0049	0.0010	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00069	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Dibromochloromethane	<0.0049		0.0049	0.00085	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,1-Dichloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,1-Dichloroethene	<0.0049		0.0049	0.00079	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,2-Dichloropropane	<0.0049		0.0049	0.00074	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.00064	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Ethylbenzene	<0.0049		0.0049	0.00098	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
2-Hexanone	<0.0049	*	0.0049	0.0014	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Methylene Chloride	<0.0049		0.0049	0.0013	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0013	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Methyl tert-butyl ether	<0.0049		0.0049	0.00080	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Styrene	<0.0049		0.0049	0.00064	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00098	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Tetrachloroethene	<0.0049		0.0049	0.00074	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Toluene	<0.0049		0.0049	0.00068	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.00067	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.00087	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00066	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Trichloroethene	<0.0049		0.0049	0.00080	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Vinyl chloride	<0.0049		0.0049	0.0010	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	11/12/12 10:55	11/16/12 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		76 - 120	11/12/12 10:55	11/16/12 17:32	1
Dibromofluoromethane	82		73 - 122	11/12/12 10:55	11/16/12 17:32	1
1,2-Dichloroethane-d4 (Surr)	97		74 - 123	11/12/12 10:55	11/16/12 17:32	1
Toluene-d8 (Surr)	110		72 - 122	11/12/12 10:55	11/16/12 17:32	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
1,2-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-2**

**Lab Sample ID: 500-52267-10**

**Date Collected: 11/12/12 10:55**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

**Percent Solids: 78.7**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.056	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Hexachloroethane	<0.21		0.21	0.045	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2-Chlorophenol	<0.21		0.21	0.060	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Nitrobenzene	<0.042		0.042	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,4-Dimethylphenol	<0.42		0.42	0.13	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Hexachlorobutadiene	<0.21		0.21	0.055	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Naphthalene	<0.042		0.042	0.0081	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,4-Dichlorophenol	<0.42		0.42	0.13	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
4-Chloroaniline	<0.85		0.85	0.13	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,4,6-Trichlorophenol	<0.42		0.42	0.053	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,4,5-Trichlorophenol	<0.42		0.42	0.12	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Hexachlorocyclopentadiene	<0.85		0.85	0.19	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
4-Chloro-3-methylphenol	<0.42		0.42	0.20	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,6-Dinitrotoluene	<0.21		0.21	0.050	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2-Nitrophenol	<0.42		0.42	0.066	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
3-Nitroaniline	<0.42		0.42	0.081	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,4-Dinitrophenol	<0.85		0.85	0.21	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Acenaphthylene	<0.042		0.042	0.0096	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Acenaphthene	<0.042		0.042	0.013	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
4-Nitrophenol	<0.85		0.85	0.23	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Fluorene	<0.042		0.042	0.0095	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
4-Nitroaniline	<0.42		0.42	0.086	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.047	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Hexachlorobenzene	<0.085		0.085	0.0082	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.066	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Pentachlorophenol	<0.85		0.85	0.21	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
N-Nitrosodiphenylamine	<0.21		0.21	0.057	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
4,6-Dinitro-2-methylphenol	<0.42		0.42	0.10	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Phenanthrene	<0.042		0.042	0.018	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Anthracene	<0.042		0.042	0.0099	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Carbazole	<0.21		0.21	0.059	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Di-n-butyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Fluoranthene	<0.042		0.042	0.017	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Pyrene	<0.042		0.042	0.015	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Benzo[a]anthracene	<0.042		0.042	0.0088	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Chrysene	<0.042		0.042	0.0095	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-2**

**Lab Sample ID: 500-52267-10**

Date Collected: 11/12/12 10:55

Matrix: Solid

Date Received: 11/13/12 07:00

Percent Solids: 78.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.055	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Di-n-octyl phthalate	<0.21		0.21	0.085	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Benzo[b]fluoranthene	<0.042		0.042	0.0081	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Benzo[k]fluoranthene	<0.042		0.042	0.010	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
<b>Benzo[a]pyrene</b>	<b>0.0095</b>	<b>J</b>	0.042	0.0076	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.014	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
Dibenz(a,h)anthracene	<0.042		0.042	0.012	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.042	0.014	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	11/26/12 07:16	12/05/12 23:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	74		30 - 110				11/26/12 07:16	12/05/12 23:33	1
Phenol-d5	70		31 - 110				11/26/12 07:16	12/05/12 23:33	1
Nitrobenzene-d5	80		30 - 115				11/26/12 07:16	12/05/12 23:33	1
2-Fluorobiphenyl	84		30 - 119				11/26/12 07:16	12/05/12 23:33	1
2,4,6-Tribromophenol	104		35 - 137				11/26/12 07:16	12/05/12 23:33	1
Terphenyl-d14	88		36 - 134				11/26/12 07:16	12/05/12 23:33	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Arsenic</b>	<b>3.6</b>		0.60	0.13	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Barium</b>	<b>43</b>		0.60	0.072	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Beryllium</b>	<b>0.88</b>		0.24	0.018	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Boron</b>	<b>15</b>		3.0	0.56	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Cadmium</b>	<b>0.78</b>		0.12	0.030	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Calcium</b>	<b>44000</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Chromium</b>	<b>20</b>		0.60	0.10	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Cobalt</b>	<b>8.6</b>		0.30	0.032	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Copper</b>	<b>16</b>		0.60	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Iron</b>	<b>24000</b>		12	5.2	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Lead</b>	<b>8.1</b>	<b>B</b>	0.30	0.10	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Magnesium</b>	<b>26000</b>	<b>B</b>	6.0	1.2	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Manganese</b>	<b>400</b>		0.60	0.085	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Nickel</b>	<b>24</b>		0.60	0.13	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Potassium</b>	<b>3200</b>		30	3.4	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
Selenium	<0.60		0.60	0.17	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Sodium</b>	<b>260</b>	<b>B</b>	60	11	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
Thallium	<0.60		0.60	0.16	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Vanadium</b>	<b>24</b>		0.30	0.046	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1
<b>Zinc</b>	<b>39</b>		1.2	0.41	mg/Kg	☼	11/13/12 09:20	11/20/12 14:28	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 15:30	11/27/12 20:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 15:30	11/27/12 20:53	1
<b>Boron</b>	<b>0.92</b>		0.50	0.050	mg/L		11/19/12 15:30	11/27/12 20:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 15:30	11/27/12 20:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-24-B11-2**

**Lab Sample ID: 500-52267-10**

Date Collected: 11/12/12 10:55

Matrix: Solid

Date Received: 11/13/12 07:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 20:53	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:53	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 15:30	11/27/12 20:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 15:30	11/27/12 20:53	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:53	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 15:30	11/27/12 20:53	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 15:30	11/27/12 20:53	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 15:30	11/27/12 20:53	1
Zinc	<0.10		0.10	0.020	mg/L		11/19/12 15:30	11/27/12 20:53	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		11/19/12 15:30	12/01/12 19:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 15:30	12/01/12 19:46	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000083</b>	<b>J ^ B</b>	0.00020	0.000020	mg/L		11/29/12 15:00	11/30/12 12:46	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.019</b>	<b>J</b>	0.020	0.0077	mg/Kg	☼	11/27/12 17:00	11/28/12 14:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.31</b>		0.200	0.200	SU			11/17/12 10:01	1



# Lab Chronicle

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

**Client Sample ID: 2034A-8-B04-1**

**Lab Sample ID: 500-52267-24**

**Date Collected: 11/12/12 14:35**

**Matrix: Solid**

**Date Received: 11/13/12 07:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	170124	(Start) 11/17/12 10:43 (End) 11/17/12 10:45	APW	TAL CHI

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52267-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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@testamericainc.com					Project Name: <u>US 30</u>					COC No.: <u>1 of 3</u>																																																																																																																																																																																																																																								
										Project No.: <u>IDOT2011-053</u>					Lab Job No.: <u>500-52267</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>										Sample Temp: <u>(3.8) (3.2)</u>																																																																																																																																																																																																																																								
					<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BETX &amp; MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>Total Metals / <i>horg</i></th> <th>TCLP/SPLP Metals / <i>horg</i></th> <th>pH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Matrix Key:</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2034A-16-B03</td> <td>11/12/12</td> <td>9:00</td> <td>S</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>W - Water</td> <td>0-5'</td> </tr> <tr> <td>2</td> <td>2034A-16-B04</td> <td></td> <td>9:20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S - Soil</td> <td>0-5'</td> </tr> <tr> <td>3</td> <td>2034A-18-B03-1</td> <td></td> <td>9:30</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SL - Sludge</td> <td>0-4'</td> </tr> <tr> <td>4</td> <td>2034A-18-B03-2</td> <td></td> <td>9:40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SE - Sediment</td> <td>4-8'</td> </tr> <tr> <td>5</td> <td>2034A-16-B01</td> <td></td> <td>9:45</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L - Leachate</td> <td>0-5'</td> </tr> <tr> <td>6</td> <td>2034A-17-B01-1</td> <td></td> <td>9:50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>DW - Drinking Water</td> <td>0-4'</td> </tr> <tr> <td>7</td> <td>2034A-17-B01-2</td> <td></td> <td>10:00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>OL - Oil</td> <td>4-8'</td> </tr> <tr> <td>8</td> <td>2034A-17-B01-1-DW</td> <td></td> <td>10:05</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>O - Other</td> <td>0-4'</td> </tr> <tr> <td>9</td> <td>2034A-<del>17</del>-B11-1</td> <td></td> <td>10:50</td> <td></td> <td></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>10</td> <td>2034A-24-B11-2</td> <td></td> <td>10:55</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4-8'</td> </tr> <tr> <td>11</td> <td>2034A-6-B03-1</td> <td></td> <td>11:45</td> <td></td> <td></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>12</td> <td>2034A-6-B03-2</td> <td></td> <td>12:00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4-8'</td> </tr> </tbody> </table>												Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / <i>horg</i>	TCLP/SPLP Metals / <i>horg</i>	pH	% Solids	Waste Characterization	Matrix Key:	Comments	1	2034A-16-B03	11/12/12	9:00	S	X	X					X	X	X	X		W - Water	0-5'	2	2034A-16-B04		9:20													S - Soil	0-5'	3	2034A-18-B03-1		9:30													SL - Sludge	0-4'	4	2034A-18-B03-2		9:40													SE - Sediment	4-8'	5	2034A-16-B01		9:45													L - Leachate	0-5'	6	2034A-17-B01-1		9:50													DW - Drinking Water	0-4'	7	2034A-17-B01-2		10:00													OL - Oil	4-8'	8	2034A-17-B01-1-DW		10:05													O - Other	0-4'	9	2034A- <del>17</del> -B11-1		10:50														0-4'	10	2034A-24-B11-2		10:55														4-8'	11	2034A-6-B03-1		11:45														0-4'	12	2034A-6-B03-2		12:00											
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10	2034A-24-B11-2		10:55														4-8'																																																																																																																																																																																																																																						
11	2034A-6-B03-1		11:45														0-4'																																																																																																																																																																																																																																						
12	2034A-6-B03-2		12:00														4-8'																																																																																																																																																																																																																																						
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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: 500-52120-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/26/2012 5:00:35 PM

Richard Wright  
Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@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 Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-1**

**Lab Sample ID: 500-52120-23**

Date Collected: 11/07/12 12:40

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 91.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0058	0.0025	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Benzene	<0.0058		0.0058	0.00080	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Bromodichloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Bromomethane	<0.0058		0.0058	0.0018	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Carbon disulfide	<0.0058		0.0058	0.00087	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Chloroethane	<0.0058		0.0058	0.0016	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Chloroform	<0.0058		0.0058	0.00067	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,1-Dichloroethane	<0.0058		0.0058	0.00092	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,1-Dichloroethene	<0.0058		0.0058	0.00094	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,2-Dichloropropane	<0.0058		0.0058	0.00088	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Methylene Chloride	<0.0058		0.0058	0.0016	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00096	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Tetrachloroethene	<0.0058		0.0058	0.00089	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Toluene	<0.0058		0.0058	0.00081	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00080	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00087	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Trichloroethene	<0.0058		0.0058	0.00096	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1
Xylenes, Total	<0.012		0.012	0.00053	mg/Kg	☼	11/07/12 12:40	11/14/12 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/07/12 12:40	11/14/12 08:24	1
Dibromofluoromethane	87		73 - 122	11/07/12 12:40	11/14/12 08:24	1
1,2-Dichloroethane-d4 (Surr)	82		74 - 123	11/07/12 12:40	11/14/12 08:24	1
Toluene-d8 (Surr)	97		72 - 122	11/07/12 12:40	11/14/12 08:24	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.89		0.89	0.28	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Bis(2-chloroethyl)ether	<0.89		0.89	0.26	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
1,3-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
1,4-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
1,2-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-1**

**Lab Sample ID: 500-52120-23**

Date Collected: 11/07/12 12:40

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 91.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.89		0.89	0.24	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,2'-oxybis[1-chloropropane]	<0.89		0.89	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
N-Nitrosodi-n-propylamine	<0.89		0.89	0.23	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Hexachloroethane	<0.89		0.89	0.19	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2-Chlorophenol	<0.89		0.89	0.25	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Nitrobenzene	<0.18		0.18	0.055	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Bis(2-chloroethoxy)methane	<0.89		0.89	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
1,2,4-Trichlorobenzene	<0.89		0.89	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Isophorone	<0.89		0.89	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,4-Dimethylphenol	<1.8		1.8	0.56	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Hexachlorobutadiene	<0.89		0.89	0.23	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Naphthalene	<0.18		0.18	0.034	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,4-Dichlorophenol	<1.8		1.8	0.54	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
4-Chloroaniline	<3.6		3.6	0.54	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,4,6-Trichlorophenol	<1.8		1.8	0.22	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,4,5-Trichlorophenol	<1.8		1.8	0.51	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Hexachlorocyclopentadiene	<3.6		3.6	0.82	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2-Methylnaphthalene	<0.89		0.89	0.23	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2-Nitroaniline	<0.89 *		0.89	0.32	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2-Chloronaphthalene	<0.89		0.89	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
4-Chloro-3-methylphenol	<1.8		1.8	0.85	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,6-Dinitrotoluene	<0.89		0.89	0.21	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2-Nitrophenol	<1.8		1.8	0.28	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
3-Nitroaniline	<1.8		1.8	0.34	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Dimethyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,4-Dinitrophenol	<3.6		3.6	0.91	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Acenaphthylene	<0.18		0.18	0.041	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
2,4-Dinitrotoluene	<0.89		0.89	0.27	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Acenaphthene	<0.18		0.18	0.053	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Dibenzofuran	<0.89		0.89	0.21	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
4-Nitrophenol	<3.6		3.6	0.96	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Fluorene</b>	<b>0.042 J</b>		0.18	0.040	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
4-Nitroaniline	<1.8		1.8	0.36	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
4-Bromophenyl phenyl ether	<0.89		0.89	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Hexachlorobenzene	<0.36		0.36	0.035	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Diethyl phthalate	<0.89		0.89	0.30	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
4-Chlorophenyl phenyl ether	<0.89		0.89	0.28	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Pentachlorophenol	<3.6		3.6	0.90	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
N-Nitrosodiphenylamine	<0.89		0.89	0.24	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.43	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Phenanthrene</b>	<b>0.47</b>		0.18	0.074	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Anthracene</b>	<b>0.10 J</b>		0.18	0.042	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Carbazole	<0.89		0.89	0.25	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Di-n-butyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Fluoranthene</b>	<b>1.3</b>		0.18	0.073	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Pyrene</b>	<b>0.88</b>		0.18	0.064	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Butyl benzyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Benzo[a]anthracene</b>	<b>0.15 J</b>		0.18	0.037	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Chrysene</b>	<b>0.71</b>		0.18	0.040	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-1**

**Lab Sample ID: 500-52120-23**

Date Collected: 11/07/12 12:40

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 91.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.89		0.89	0.15	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Bis(2-ethylhexyl) phthalate	<0.89		0.89	0.24	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Di-n-octyl phthalate	<0.89		0.89	0.36	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Benzo[b]fluoranthene</b>	<b>0.49</b>		0.18	0.034	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
<b>Benzo[k]fluoranthene</b>	<b>0.58</b>		0.18	0.042	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Benzo[a]pyrene	<0.18		0.18	0.032	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Indeno[1,2,3-cd]pyrene	<0.18		0.18	0.060	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Dibenz(a,h)anthracene	<0.18		0.18	0.050	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Benzo[g,h,i]perylene	<0.18		0.18	0.060	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
3 & 4 Methylphenol	<0.89		0.89	0.34	mg/Kg	☼	11/16/12 07:11	11/23/12 22:56	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		30 - 110				11/16/12 07:11	11/23/12 22:56	5
Phenol-d5	63		31 - 110				11/16/12 07:11	11/23/12 22:56	5
Nitrobenzene-d5	62		30 - 115				11/16/12 07:11	11/23/12 22:56	5
2-Fluorobiphenyl	84		30 - 119				11/16/12 07:11	11/23/12 22:56	5
2,4,6-Tribromophenol	102		35 - 137				11/16/12 07:11	11/23/12 22:56	5
Terphenyl-d14	77		36 - 134				11/16/12 07:11	11/23/12 22:56	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.2		5.2	0.69	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Arsenic</b>	<b>3.8</b>		2.6	0.56	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Barium</b>	<b>35</b>	<b>B</b>	2.6	0.31	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Beryllium</b>	<b>0.41</b>	<b>J</b>	1.0	0.076	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Boron</b>	<b>14</b>		13	2.4	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Cadmium</b>	<b>0.40</b>	<b>J</b>	0.52	0.13	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Calcium</b>	<b>150000</b>	<b>B</b>	100	18	mg/Kg	☼	11/09/12 12:00	11/15/12 10:04	10
<b>Chromium</b>	<b>9.0</b>		2.6	0.43	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Cobalt</b>	<b>3.0</b>		1.3	0.14	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Copper</b>	<b>9.6</b>		2.6	0.70	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Iron</b>	<b>5700</b>		52	22	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Lead</b>	<b>17</b>		1.3	0.45	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Magnesium</b>	<b>70000</b>	<b>B</b>	26	5.0	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Manganese</b>	<b>240</b>		2.6	0.36	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Nickel</b>	<b>8.5</b>		2.6	0.57	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Potassium</b>	<b>400</b>		130	15	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Selenium</b>	<b>0.88</b>	<b>J</b>	2.6	0.74	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
Silver	<1.3		1.3	0.16	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Sodium</b>	<b>520</b>		260	47	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
Thallium	<2.6		2.6	0.67	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Vanadium</b>	<b>11</b>		1.3	0.20	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5
<b>Zinc</b>	<b>48</b>		5.2	1.8	mg/Kg	☼	11/09/12 12:00	11/15/12 02:01	5

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 21:59	1
<b>Boron</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 21:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 21:59	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-1**

**Lab Sample ID: 500-52120-23**

Date Collected: 11/07/12 12:40

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:59	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:59	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:59	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 21:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 21:59	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 21:59	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 21:59	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 21:59	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 21:59	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		11/15/12 15:00	11/17/12 23:14	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:14	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		11/16/12 13:30	11/19/12 10:02	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.014</b>	J	0.018	0.0068	mg/Kg	☼	11/15/12 16:00	11/16/12 11:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.05</b>		0.200	0.200	SU			11/12/12 10:47	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-2**

**Lab Sample ID: 500-52120-24**

**Date Collected: 11/07/12 12:45**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 83.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011		0.0045	0.0020	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Carbon disulfide	<0.0045		0.0045	0.00068	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Carbon tetrachloride	<0.0045		0.0045	0.00083	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Dibromochloromethane	<0.0045		0.0045	0.00079	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,1-Dichloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,2-Dichloropropane	<0.0045		0.0045	0.00069	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00060	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Ethylbenzene	<0.0045		0.0045	0.00092	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00075	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Styrene	<0.0045		0.0045	0.00060	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Toluene	<0.0045		0.0045	0.00064	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00068	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00062	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Trichloroethene	<0.0045		0.0045	0.00075	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1
Xylenes, Total	<0.0091		0.0091	0.00041	mg/Kg	☼	11/07/12 12:45	11/14/12 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		76 - 120	11/07/12 12:45	11/14/12 12:33	1
Dibromofluoromethane	94		73 - 122	11/07/12 12:45	11/14/12 12:33	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/07/12 12:45	11/14/12 12:33	1
Toluene-d8 (Surr)	96		72 - 122	11/07/12 12:45	11/14/12 12:33	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-2**

**Lab Sample ID: 500-52120-24**

**Date Collected: 11/07/12 12:45**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 83.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Naphthalene	<0.039		0.039	0.0076	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2-Methylnaphthalene	<0.20		0.20	0.051	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2-Nitroaniline	<0.20 *		0.20	0.071	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
3-Nitroaniline	<0.39		0.39	0.076	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.062	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Carbazole	<0.20		0.20	0.056	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Pyrene	<0.039		0.039	0.014	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Chrysene	<0.039		0.039	0.0089	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-2**

**Lab Sample ID: 500-52120-24**

Date Collected: 11/07/12 12:45

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 83.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Di-n-octyl phthalate	<0.20		0.20	0.080	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Benzo[k]fluoranthene	<0.039		0.039	0.0094	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/16/12 07:11	11/23/12 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	48		30 - 110	11/16/12 07:11	11/23/12 23:16	1
Phenol-d5	60		31 - 110	11/16/12 07:11	11/23/12 23:16	1
Nitrobenzene-d5	41		30 - 115	11/16/12 07:11	11/23/12 23:16	1
2-Fluorobiphenyl	57		30 - 119	11/16/12 07:11	11/23/12 23:16	1
2,4,6-Tribromophenol	135		35 - 137	11/16/12 07:11	11/23/12 23:16	1
Terphenyl-d14	64		36 - 134	11/16/12 07:11	11/23/12 23:16	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Arsenic</b>	<b>12</b>		0.56	0.12	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Barium</b>	<b>71</b>	<b>B</b>	0.56	0.067	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Beryllium</b>	<b>0.76</b>		0.23	0.016	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Boron</b>	<b>2.3</b>	<b>J</b>	2.8	0.52	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Cadmium</b>	<b>0.088</b>	<b>J</b>	0.11	0.028	mg/Kg	☼	11/09/12 12:00	11/15/12 02:06	1
<b>Calcium</b>	<b>3400</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Chromium</b>	<b>17</b>		0.56	0.094	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Cobalt</b>	<b>5.8</b>		0.28	0.030	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Copper</b>	<b>15</b>		0.56	0.15	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Iron</b>	<b>29000</b>		11	4.9	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Lead</b>	<b>12</b>		0.28	0.097	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Magnesium</b>	<b>2700</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Manganese</b>	<b>120</b>		0.56	0.079	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Nickel</b>	<b>18</b>		0.56	0.12	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Potassium</b>	<b>860</b>		28	3.2	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Selenium</b>	<b>0.69</b>		0.56	0.16	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Sodium</b>	<b>980</b>		56	10	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Vanadium</b>	<b>25</b>		0.28	0.043	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1
<b>Zinc</b>	<b>37</b>		1.1	0.39	mg/Kg	☼	11/09/12 12:00	11/11/12 00:56	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 22:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 22:20	1
<b>Boron</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 22:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 22:20	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

**Client Sample ID: 2034A-24-B22-2**

**Lab Sample ID: 500-52120-24**

Date Collected: 11/07/12 12:45

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:20	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:20	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:20	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 22:20	1
<b>Lead</b>	<b>0.0063</b>	<b>J</b>	0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 22:20	1
<b>Manganese</b>	<b>0.69</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:20	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:20	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 22:20	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:20	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 22:20	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		11/15/12 15:00	11/17/12 23:15	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:15	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		11/16/12 13:30	11/19/12 10:04	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.025</b>		0.020	0.0075	mg/Kg	☼	11/15/12 16:00	11/16/12 11:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.32</b>		0.200	0.200	SU			11/12/12 10:50	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
F	Duplicate RPD exceeds the control limit
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	MS or MSD exceeds the control limits
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52120-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>IL 30</u> Project No.: <u>IDOT2011-DS3</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>4</u> Lab Job No.: <u>500-52120</u> Sample Temp: _____																																																																																																																																																																																																																													
<b>Special Instructions:</b> See Table 2 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;"> <thead> <tr> <th>Lab ID</th> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Matrix</th> <th>VOCs</th> <th>SVOCs</th> <th>BETX &amp; MTBE</th> <th>PNAs</th> <th>Pesticides</th> <th>PCBs</th> <th>Total Metals / <i>Trace Metals</i></th> <th>TCLP/SPLP/ <i>Trace Metals</i></th> <th>PH</th> <th>% Solids</th> <th>Waste Characterization</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>2034A-21-B02-1</td> <td>11-7-12</td> <td>9:55</td> <td>Soil</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>14</td> <td>2034A-21-B02-2</td> <td></td> <td>10:00</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10'</td> </tr> <tr> <td>15</td> <td>2034A-21-B01-1</td> <td></td> <td>10:05</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>16</td> <td>2034A-21-B01-2</td> <td></td> <td>10:10</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>5-10'</td> </tr> <tr> <td>17</td> <td>2034A-21-B01-1 DUF</td> <td></td> <td>10:15</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-5'</td> </tr> <tr> <td>18</td> <td>2034A-22-B01-1</td> <td></td> <td>11:40</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-4'</td> </tr> <tr> <td>19</td> <td>2034A-22-B01-2</td> <td></td> <td>11:45</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>4-8'</td> </tr> <tr> <td>20</td> <td>2034A-22-B01-1 DUF</td> <td></td> <td>11:50</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-4'</td> </tr> <tr> <td>21</td> <td>2034A-22-B02-1</td> <td></td> <td>11:55</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-4'</td> </tr> <tr> <td>22</td> <td>2034A-22-B02-2</td> <td></td> <td>12:00</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>4-8'</td> </tr> <tr> <td>23</td> <td>2034A-24-B22-1</td> <td></td> <td>12:40</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>0-4'</td> </tr> <tr> <td>24</td> <td>2034A-24-B22-2</td> <td></td> <td>12:45</td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>4-8'</td> </tr> </tbody> </table>		Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	Total Metals / <i>Trace Metals</i>	TCLP/SPLP/ <i>Trace Metals</i>	PH	% Solids	Waste Characterization	Comments	13	2034A-21-B02-1	11-7-12	9:55	Soil	X	X					X	X	X	X		0-5'	14	2034A-21-B02-2		10:00		X	X					X	X	X	X		5-10'	15	2034A-21-B01-1		10:05		X	X					X	X	X	X		0-5'	16	2034A-21-B01-2		10:10		X	X					X	X	X	X		5-10'	17	2034A-21-B01-1 DUF		10:15		X	X					X	X	X	X		0-5'	18	2034A-22-B01-1		11:40		X	X					X	X	X	X		0-4'	19	2034A-22-B01-2		11:45		X	X					X	X	X	X		4-8'	20	2034A-22-B01-1 DUF		11:50		X	X					X	X	X	X		0-4'	21	2034A-22-B02-1		11:55		X	X					X	X	X	X		0-4'	22	2034A-22-B02-2		12:00		X	X					X	X	X	X		4-8'	23	2034A-24-B22-1		12:40		X	X					X	X	X	X		0-4'	24	2034A-24-B22-2		12:45		X	X					X	X	X	X		4-8'
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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: 500-52121-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 8:21:41 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?



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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 Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-1**

**Lab Sample ID: 500-52121-1**

**Date Collected: 11/07/12 12:55**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 81.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
2-Butanone (MEK)	<0.0054		0.0054	0.0020	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Carbon tetrachloride	<0.0054		0.0054	0.00098	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Chloroethane	<0.0054	*	0.0054	0.0015	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	11/07/12 12:55	11/15/12 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	11/07/12 12:55	11/15/12 01:57	1
Dibromofluoromethane	90		73 - 122	11/07/12 12:55	11/15/12 01:57	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/07/12 12:55	11/15/12 01:57	1
Toluene-d8 (Surr)	108		72 - 122	11/07/12 12:55	11/15/12 01:57	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.99		0.99	0.31	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Bis(2-chloroethyl)ether	<0.99		0.99	0.29	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
1,3-Dichlorobenzene	<0.99		0.99	0.21	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
1,4-Dichlorobenzene	<0.99		0.99	0.21	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
1,2-Dichlorobenzene	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-1**

**Lab Sample ID: 500-52121-1**

Date Collected: 11/07/12 12:55

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 81.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,2'-oxybis[1-chloropropane]	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
N-Nitrosodi-n-propylamine	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Hexachloroethane	<0.99		0.99	0.21	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2-Chlorophenol	<0.99		0.99	0.28	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Nitrobenzene	<0.20		0.20	0.061	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Bis(2-chloroethoxy)methane	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
1,2,4-Trichlorobenzene	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Isophorone	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,4-Dimethylphenol	<2.0		2.0	0.62	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Hexachlorobutadiene	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Naphthalene	<0.20		0.20	0.038	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,4-Dichlorophenol	<2.0		2.0	0.60	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
4-Chloroaniline	<4.0		4.0	0.60	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,4,6-Trichlorophenol	<2.0		2.0	0.25	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,4,5-Trichlorophenol	<2.0		2.0	0.56	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Hexachlorocyclopentadiene	<4.0		4.0	0.92	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2-Methylnaphthalene	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2-Nitroaniline	<0.99		0.99	0.36	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2-Chloronaphthalene	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
4-Chloro-3-methylphenol	<2.0		2.0	0.94	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,6-Dinitrotoluene	<0.99		0.99	0.23	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2-Nitrophenol	<2.0		2.0	0.31	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
3-Nitroaniline	<2.0		2.0	0.38	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Dimethyl phthalate	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,4-Dinitrophenol	<4.0		4.0	1.0	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Acenaphthylene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
2,4-Dinitrotoluene	<0.99		0.99	0.30	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Acenaphthene	<0.20		0.20	0.059	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Dibenzofuran	<0.99		0.99	0.24	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
4-Nitrophenol	<4.0		4.0	1.1	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Fluorene	<0.20		0.20	0.045	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
4-Nitroaniline	<2.0		2.0	0.40	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
4-Bromophenyl phenyl ether	<0.99		0.99	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Hexachlorobenzene	<0.40		0.40	0.039	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Diethyl phthalate	<0.99		0.99	0.33	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
4-Chlorophenyl phenyl ether	<0.99		0.99	0.31	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Pentachlorophenol	<4.0		4.0	1.0	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
N-Nitrosodiphenylamine	<0.99		0.99	0.27	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
4,6-Dinitro-2-methylphenol	<2.0		2.0	0.48	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Phenanthrene</b>	<b>0.42</b>		0.20	0.083	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Anthracene	<0.20		0.20	0.046	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Carbazole	<0.99		0.99	0.28	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Di-n-butyl phthalate	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Fluoranthene</b>	<b>1.1</b>		0.20	0.081	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Pyrene</b>	<b>1.1</b>		0.20	0.071	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Butyl benzyl phthalate	<0.99		0.99	0.25	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Benzo[a]anthracene</b>	<b>0.51</b>		0.20	0.041	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Chrysene</b>	<b>0.61</b>		0.20	0.045	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-1**

**Lab Sample ID: 500-52121-1**

Date Collected: 11/07/12 12:55

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 81.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.99		0.99	0.16	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Bis(2-ethylhexyl) phthalate	<0.99		0.99	0.26	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Di-n-octyl phthalate	<0.99		0.99	0.40	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Benzo[b]fluoranthene</b>	<b>0.58</b>		0.20	0.038	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Benzo[k]fluoranthene</b>	<b>0.54</b>		0.20	0.047	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Benzo[a]pyrene</b>	<b>0.69</b>		0.20	0.036	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.32</b>		0.20	0.067	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Dibenz(a,h)anthracene</b>	<b>0.059</b>	J	0.20	0.055	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
<b>Benzo[g,h,i]perylene</b>	<b>0.36</b>		0.20	0.067	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
3 & 4 Methylphenol	<0.99		0.99	0.37	mg/Kg	☼	11/19/12 07:00	11/28/12 18:33	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	56		30 - 110				11/19/12 07:00	11/28/12 18:33	5
Phenol-d5	46		31 - 110				11/19/12 07:00	11/28/12 18:33	5
Nitrobenzene-d5	56		30 - 115				11/19/12 07:00	11/28/12 18:33	5
2-Fluorobiphenyl	72		30 - 119				11/19/12 07:00	11/28/12 18:33	5
2,4,6-Tribromophenol	94		35 - 137				11/19/12 07:00	11/28/12 18:33	5
Terphenyl-d14	105		36 - 134				11/19/12 07:00	11/28/12 18:33	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Arsenic</b>	<b>6.3</b>		0.56	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Barium</b>	<b>24</b>		0.56	0.067	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Beryllium</b>	<b>0.31</b>		0.22	0.016	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Boron</b>	<b>1.9</b>	J	2.8	0.52	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Cadmium</b>	<b>0.083</b>	J	0.11	0.028	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Calcium</b>	<b>10000</b>	B	11	2.0	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Chromium</b>	<b>6.2</b>		0.56	0.093	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Cobalt</b>	<b>4.5</b>		0.28	0.029	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Copper</b>	<b>8.9</b>		0.56	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Iron</b>	<b>10000</b>	B	11	4.8	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Lead</b>	<b>10</b>	B	0.28	0.096	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Magnesium</b>	<b>6500</b>	B	5.6	1.1	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Manganese</b>	<b>230</b>	B	0.56	0.079	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Nickel</b>	<b>9.2</b>		0.56	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Potassium</b>	<b>420</b>		28	3.2	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Selenium</b>	<b>0.19</b>	J	0.56	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Sodium</b>	<b>99</b>		56	10	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Vanadium</b>	<b>10</b>		0.28	0.042	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1
<b>Zinc</b>	<b>28</b>		1.1	0.38	mg/Kg	☼	11/09/12 12:00	11/17/12 02:52	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.26</b>	J	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 22:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 22:27	1
<b>Boron</b>	<b>0.19</b>	J	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 22:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 22:27	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-1**

**Lab Sample ID: 500-52121-1**

Date Collected: 11/07/12 12:55

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:27	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:27	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:27	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 22:27	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 22:27	1
<b>Manganese</b>	<b>0.47</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:27	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:27	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 22:27	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:27	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 22:27	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		11/15/12 15:00	11/17/12 23:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:16	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		11/16/12 13:30	11/19/12 10:06	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.011</b>	J	0.020	0.0075	mg/Kg	☼	11/16/12 15:00	11/19/12 11:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.13</b>		0.200	0.200	SU			11/13/12 09:16	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-2**

**Lab Sample ID: 500-52121-2**

Date Collected: 11/07/12 13:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 84.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0067		0.0046	0.0020	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Benzene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Bromodichloromethane	<0.0046		0.0046	0.00079	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Bromoform	<0.0046		0.0046	0.0011	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Bromomethane	<0.0046		0.0046	0.0014	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
2-Butanone (MEK)	<0.0046		0.0046	0.0017	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Carbon disulfide	<0.0046		0.0046	0.00069	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Carbon tetrachloride	<0.0046		0.0046	0.00084	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Chlorobenzene	<0.0046		0.0046	0.00047	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Chloroethane	<0.0046	*	0.0046	0.0013	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Chloroform	<0.0046		0.0046	0.00053	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Chloromethane	<0.0046		0.0046	0.00097	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00065	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Dibromochloromethane	<0.0046		0.0046	0.00080	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,1-Dichloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,1-Dichloroethene	<0.0046		0.0046	0.00074	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,2-Dichloropropane	<0.0046		0.0046	0.00070	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.00060	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Ethylbenzene	<0.0046		0.0046	0.00093	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
2-Hexanone	<0.0046		0.0046	0.0013	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Methylene Chloride	<0.0046		0.0046	0.0012	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0012	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Methyl tert-butyl ether	<0.0046		0.0046	0.00076	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Styrene	<0.0046		0.0046	0.00060	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,1,1,2-Tetrachloroethane	<0.0046		0.0046	0.00093	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Tetrachloroethene	<0.0046		0.0046	0.00070	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Toluene	<0.0046		0.0046	0.00064	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.00063	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.00082	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00063	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Trichloroethene	<0.0046		0.0046	0.00076	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Vinyl chloride	<0.0046		0.0046	0.00097	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1
Xylenes, Total	<0.0092		0.0092	0.00042	mg/Kg	☼	11/07/12 13:00	11/15/12 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		76 - 120	11/07/12 13:00	11/15/12 02:20	1
Dibromofluoromethane	88		73 - 122	11/07/12 13:00	11/15/12 02:20	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/07/12 13:00	11/15/12 02:20	1
Toluene-d8 (Surr)	109		72 - 122	11/07/12 13:00	11/15/12 02:20	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-2**

**Lab Sample ID: 500-52121-2**

Date Collected: 11/07/12 13:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 84.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Hexachlorobenzene	<0.077		0.077	0.0076	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Pentachlorophenol	<0.77		0.77	0.20	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Phenanthrene</b>	<b>0.022</b>	<b>J</b>	0.038	0.016	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Fluoranthene</b>	<b>0.043</b>		0.038	0.016	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Pyrene</b>	<b>0.039</b>		0.038	0.014	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Benzo[a]anthracene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0080	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Chrysene</b>	<b>0.030</b>	<b>J</b>	0.038	0.0087	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-2**

**Lab Sample ID: 500-52121-2**

Date Collected: 11/07/12 13:00

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 84.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.054</b>	<b>J</b>	0.19	0.051	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Benzo[b]fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.038	0.0075	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.038	0.0092	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Benzo[a]pyrene</b>	<b>0.024</b>	<b>J</b>	0.038	0.0070	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.015</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Benzo[g,h,i]perylene</b>	<b>0.021</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/19/12 07:00	11/28/12 18:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	68		30 - 110				11/19/12 07:00	11/28/12 18:52	1
Phenol-d5	60		31 - 110				11/19/12 07:00	11/28/12 18:52	1
Nitrobenzene-d5	77		30 - 115				11/19/12 07:00	11/28/12 18:52	1
2-Fluorobiphenyl	86		30 - 119				11/19/12 07:00	11/28/12 18:52	1
2,4,6-Tribromophenol	89		35 - 137				11/19/12 07:00	11/28/12 18:52	1
Terphenyl-d14	103		36 - 134				11/19/12 07:00	11/28/12 18:52	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Arsenic</b>	<b>1.0</b>		0.57	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Barium</b>	<b>5.7</b>		0.57	0.068	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Beryllium</b>	<b>0.22</b>	<b>J</b>	0.23	0.017	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Boron</b>	<b>2.8</b>		2.8	0.53	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Cadmium</b>	<b>0.11</b>		0.11	0.028	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Calcium</b>	<b>30000</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Chromium</b>	<b>5.0</b>		0.57	0.095	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Cobalt</b>	<b>3.2</b>		0.28	0.030	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Copper</b>	<b>14</b>		0.57	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Iron</b>	<b>4700</b>	<b>B</b>	11	4.9	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Lead</b>	<b>8.5</b>	<b>B</b>	0.28	0.098	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Manganese</b>	<b>130</b>	<b>B</b>	0.57	0.080	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Nickel</b>	<b>7.7</b>		0.57	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Potassium</b>	<b>510</b>		28	3.2	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Sodium</b>	<b>200</b>		57	10	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Vanadium</b>	<b>8.0</b>		0.28	0.043	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1
<b>Zinc</b>	<b>19</b>		1.1	0.39	mg/Kg	☼	11/09/12 12:00	11/17/12 03:23	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.12</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 22:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 22:33	1
<b>Boron</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 22:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 22:33	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B23-2**

**Lab Sample ID: 500-52121-2**

Date Collected: 11/07/12 13:00

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:33	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:33	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:33	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 22:33	1
<b>Lead</b>	<b>0.019</b>		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 22:33	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:33	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:33	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 22:33	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:33	1
<b>Zinc</b>	<b>0.050</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/16/12 22:33	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		11/15/12 15:00	11/17/12 23:17	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:17	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		11/16/12 13:30	11/19/12 10:07	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.0072	mg/Kg	☼	11/16/12 15:00	11/19/12 11:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.96</b>		0.200	0.200	SU			11/13/12 09:19	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-1**

**Lab Sample ID: 500-52121-3**

**Date Collected: 11/07/12 13:15**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 87.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0054		0.0054	0.0023	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Benzene	<0.0054		0.0054	0.00073	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Bromodichloromethane	<0.0054		0.0054	0.00092	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Carbon disulfide	<0.0054		0.0054	0.00080	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Carbon tetrachloride	<0.0054		0.0054	0.00097	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Chlorobenzene	<0.0054		0.0054	0.00054	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Chloroethane	<0.0054	*	0.0054	0.0015	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Dibromochloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,2-Dichloroethane	<0.0054		0.0054	0.00079	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,2-Dichloropropane	<0.0054		0.0054	0.00081	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00070	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
2-Hexanone	<0.0054		0.0054	0.0015	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Methylene Chloride	<0.0054		0.0054	0.0014	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00088	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Styrene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,1,1,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00096	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Trichloroethene	<0.0054		0.0054	0.00088	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	11/07/12 13:15	11/15/12 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		76 - 120	11/07/12 13:15	11/15/12 02:43	1
Dibromofluoromethane	87		73 - 122	11/07/12 13:15	11/15/12 02:43	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/07/12 13:15	11/15/12 02:43	1
Toluene-d8 (Surr)	109		72 - 122	11/07/12 13:15	11/15/12 02:43	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
1,2-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-1**

**Lab Sample ID: 500-52121-3**

**Date Collected: 11/07/12 13:15**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 87.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Hexachloroethane	<0.19		0.19	0.040	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2-Chlorophenol	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Hexachlorobutadiene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Naphthalene	<0.038		0.038	0.0073	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,4-Dichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
4-Chloroaniline	<0.76		0.76	0.11	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,4,6-Trichlorophenol	<0.38		0.38	0.047	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Hexachlorocyclopentadiene	<0.76		0.76	0.18	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2-Methylnaphthalene	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2-Nitroaniline	<0.19		0.19	0.068	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2-Nitrophenol	<0.38		0.38	0.059	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
3-Nitroaniline	<0.38		0.38	0.073	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Dimethyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,4-Dinitrophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Acenaphthylene	<0.038		0.038	0.0087	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
4-Nitrophenol	<0.76		0.76	0.20	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Fluorene	<0.038		0.038	0.0086	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
4-Nitroaniline	<0.38		0.38	0.077	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Hexachlorobenzene	<0.076		0.076	0.0074	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Pentachlorophenol	<0.76		0.76	0.19	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.092	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Anthracene	<0.038		0.038	0.0089	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Carbazole	<0.19		0.19	0.053	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Fluoranthene</b>	<b>0.025</b>	<b>J</b>	0.038	0.015	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Pyrene</b>	<b>0.019</b>	<b>J</b>	0.038	0.014	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Butyl benzyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Benzo[a]anthracene</b>	<b>0.013</b>	<b>J</b>	0.038	0.0079	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Chrysene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0085	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-1**

**Lab Sample ID: 500-52121-3**

Date Collected: 11/07/12 13:15

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 87.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.052</b>	<b>J</b>	0.19	0.050	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Benzo[b]fluoranthene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0073	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Benzo[k]fluoranthene</b>	<b>0.022</b>	<b>J</b>	0.038	0.0090	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Benzo[a]pyrene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0069	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
3 & 4 Methylphenol	<0.19		0.19	0.071	mg/Kg	☼	11/19/12 07:00	11/28/12 19:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	67		30 - 110				11/19/12 07:00	11/28/12 19:11	1
Phenol-d5	60		31 - 110				11/19/12 07:00	11/28/12 19:11	1
Nitrobenzene-d5	76		30 - 115				11/19/12 07:00	11/28/12 19:11	1
2-Fluorobiphenyl	84		30 - 119				11/19/12 07:00	11/28/12 19:11	1
2,4,6-Tribromophenol	90		35 - 137				11/19/12 07:00	11/28/12 19:11	1
Terphenyl-d14	92		36 - 134				11/19/12 07:00	11/28/12 19:11	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Arsenic</b>	<b>6.7</b>		0.54	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Barium</b>	<b>23</b>		0.54	0.065	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Beryllium</b>	<b>0.35</b>		0.22	0.016	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Boron</b>	<b>1.6</b>	<b>J</b>	2.7	0.51	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Cadmium</b>	<b>0.033</b>	<b>J</b>	0.11	0.027	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Calcium</b>	<b>2300</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Chromium</b>	<b>7.7</b>		0.54	0.091	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Cobalt</b>	<b>5.6</b>		0.27	0.028	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Copper</b>	<b>11</b>		0.54	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Iron</b>	<b>13000</b>	<b>B</b>	11	4.7	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Lead</b>	<b>11</b>	<b>B</b>	0.27	0.093	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Magnesium</b>	<b>2200</b>	<b>B</b>	5.4	1.1	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Manganese</b>	<b>320</b>	<b>B</b>	0.54	0.076	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Nickel</b>	<b>11</b>		0.54	0.12	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Potassium</b>	<b>460</b>		27	3.1	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Selenium</b>	<b>0.28</b>	<b>J</b>	0.54	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Sodium</b>	<b>130</b>		54	9.9	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Vanadium</b>	<b>12</b>		0.27	0.041	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1
<b>Zinc</b>	<b>35</b>		1.1	0.37	mg/Kg	☼	11/09/12 12:00	11/17/12 03:29	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 22:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 22:39	1
<b>Boron</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 22:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 22:39	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-1**

**Lab Sample ID: 500-52121-3**

Date Collected: 11/07/12 13:15

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:39	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:39	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 22:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 22:39	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:39	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:39	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 22:39	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:39	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 22:39	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		11/15/12 15:00	11/17/12 23:17	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:17	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		11/16/12 13:30	11/19/12 10:09	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.019</b>		0.018	0.0067	mg/Kg	☼	11/16/12 15:00	11/19/12 12:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.15</b>		0.200	0.200	SU			11/13/12 09:22	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-2**

**Lab Sample ID: 500-52121-4**

**Date Collected: 11/07/12 13:20**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 79.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0022	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Benzene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Bromoform	<0.0050		0.0050	0.0012	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Chloroform	<0.0050		0.0050	0.00058	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Chloromethane	<0.0050		0.0050	0.0011	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Methylene Chloride	<0.0050		0.0050	0.0014	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Tetrachloroethene	<0.0050		0.0050	0.00077	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Trichloroethene	<0.0050		0.0050	0.00083	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Vinyl chloride	<0.0050		0.0050	0.0011	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/07/12 13:20	11/15/12 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		76 - 120	11/07/12 13:20	11/15/12 14:49	1
Dibromofluoromethane	84		73 - 122	11/07/12 13:20	11/15/12 14:49	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/07/12 13:20	11/15/12 14:49	1
Toluene-d8 (Surr)	106		72 - 122	11/07/12 13:20	11/15/12 14:49	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.066	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
1,3-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
1,2-Dichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-2**

**Lab Sample ID: 500-52121-4**

**Date Collected: 11/07/12 13:20**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 79.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.21		0.21	0.055	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.046	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
N-Nitrosodi-n-propylamine	<0.21		0.21	0.053	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Hexachloroethane	<0.21		0.21	0.044	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2-Chlorophenol	<0.21		0.21	0.059	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.046	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,4-Dimethylphenol	<0.41		0.41	0.13	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Hexachlorobutadiene	<0.21		0.21	0.054	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Naphthalene	<0.041		0.041	0.0080	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,4-Dichlorophenol	<0.41		0.41	0.13	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
4-Chloroaniline	<0.84		0.84	0.13	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.052	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,4,5-Trichlorophenol	<0.41		0.41	0.12	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Hexachlorocyclopentadiene	<0.84		0.84	0.19	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2-Methylnaphthalene	<0.21		0.21	0.054	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2-Nitroaniline	<0.21		0.21	0.075	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
4-Chloro-3-methylphenol	<0.41		0.41	0.20	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.049	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2-Nitrophenol	<0.41		0.41	0.065	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
3-Nitroaniline	<0.41		0.41	0.080	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Dimethyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,4-Dinitrophenol	<0.84		0.84	0.21	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Acenaphthylene	<0.041		0.041	0.0095	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.064	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Acenaphthene	<0.041		0.041	0.012	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
4-Nitrophenol	<0.84		0.84	0.22	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Fluorene	<0.041		0.041	0.0094	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
4-Nitroaniline	<0.41		0.41	0.085	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.046	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Hexachlorobenzene	<0.084		0.084	0.0082	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.065	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Pentachlorophenol	<0.84		0.84	0.21	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.056	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
4,6-Dinitro-2-methylphenol	<0.41		0.41	0.10	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Phenanthrene	<0.041		0.041	0.017	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Anthracene	<0.041		0.041	0.0097	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Carbazole	<0.21		0.21	0.058	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Di-n-butyl phthalate</b>	<b>0.14</b>	<b>J</b>	0.21	0.052	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Fluoranthene	<0.041		0.041	0.017	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Pyrene</b>	<b>0.015</b>	<b>J</b>	0.041	0.015	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Butyl benzyl phthalate	<0.21		0.21	0.052	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Benzo[a]anthracene</b>	<b>0.021</b>	<b>J</b>	0.041	0.0087	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Chrysene</b>	<b>0.042</b>		0.041	0.0094	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-2**

**Lab Sample ID: 500-52121-4**

Date Collected: 11/07/12 13:20

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 79.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.21		0.21	0.035	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.060</b>	<b>J</b>	0.21	0.055	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Di-n-octyl phthalate	<0.21		0.21	0.084	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Benzo[b]fluoranthene</b>	<b>0.052</b>		0.041	0.0080	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Benzo[k]fluoranthene</b>	<b>0.057</b>		0.041	0.0099	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Benzo[a]pyrene</b>	<b>0.049</b>		0.041	0.0076	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.044</b>		0.041	0.014	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Dibenz(a,h)anthracene</b>	<b>0.014</b>	<b>J</b>	0.041	0.012	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
<b>Benzo[g,h,i]perylene</b>	<b>0.054</b>		0.041	0.014	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
3 & 4 Methylphenol	<0.21		0.21	0.079	mg/Kg	☼	11/19/12 07:00	11/28/12 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		30 - 110				11/19/12 07:00	11/28/12 19:30	1
Phenol-d5	64		31 - 110				11/19/12 07:00	11/28/12 19:30	1
Nitrobenzene-d5	76		30 - 115				11/19/12 07:00	11/28/12 19:30	1
2-Fluorobiphenyl	83		30 - 119				11/19/12 07:00	11/28/12 19:30	1
2,4,6-Tribromophenol	82		35 - 137				11/19/12 07:00	11/28/12 19:30	1
Terphenyl-d14	95		36 - 134				11/19/12 07:00	11/28/12 19:30	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Arsenic</b>	<b>1.3</b>		0.61	0.13	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Barium</b>	<b>6.6</b>		0.61	0.073	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Beryllium</b>	<b>0.23</b>	<b>J</b>	0.25	0.018	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Boron</b>	<b>1.2</b>	<b>J</b>	3.1	0.57	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
Cadmium	<0.12		0.12	0.030	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Calcium</b>	<b>470</b>	<b>B</b>	12	2.2	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Chromium</b>	<b>4.3</b>		0.61	0.10	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Cobalt</b>	<b>1.7</b>		0.31	0.032	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Copper</b>	<b>2.2</b>		0.61	0.17	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Iron</b>	<b>3600</b>	<b>B</b>	12	5.3	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Lead</b>	<b>4.1</b>	<b>B</b>	0.31	0.11	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Magnesium</b>	<b>670</b>	<b>B</b>	6.1	1.2	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Manganese</b>	<b>30</b>	<b>B</b>	0.61	0.087	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Nickel</b>	<b>4.9</b>		0.61	0.13	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Potassium</b>	<b>240</b>		31	3.5	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Selenium</b>	<b>0.20</b>	<b>J</b>	0.61	0.18	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
Silver	<0.31		0.31	0.037	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Sodium</b>	<b>100</b>		61	11	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
Thallium	<0.61		0.61	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Vanadium</b>	<b>8.8</b>		0.31	0.047	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1
<b>Zinc</b>	<b>14</b>		1.2	0.42	mg/Kg	☼	11/09/12 12:00	11/17/12 03:36	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.059</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 22:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 22:45	1
<b>Boron</b>	<b>0.087</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 22:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 22:45	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B16-2**

**Lab Sample ID: 500-52121-4**

Date Collected: 11/07/12 13:20

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:45	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:45	1
<b>Iron</b>	<b>1.8</b>		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 22:45	1
<b>Lead</b>	<b>0.0057</b>	<b>J</b>	0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 22:45	1
<b>Manganese</b>	<b>0.047</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:45	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 22:45	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 22:45	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 22:45	1
Zinc	<0.10		0.10	0.020	mg/L		11/15/12 15:00	11/16/12 22:45	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		11/15/12 15:00	11/17/12 23:18	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:18	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		11/16/12 13:30	11/19/12 10:11	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.021		0.021	0.0078	mg/Kg	☼	11/16/12 15:00	11/19/12 12:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.94</b>		0.200	0.200	SU			11/13/12 09:26	1



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-1**

**Lab Sample ID: 500-52121-10**

Date Collected: 11/07/12 14:10

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 88.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0021	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Carbon disulfide	<0.0050		0.0050	0.00074	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Carbon tetrachloride	<0.0050		0.0050	0.00090	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Chlorobenzene	<0.0050		0.0050	0.00050	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Chloroethane	<0.0050	*	0.0050	0.0013	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Dibromochloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,1-Dichloroethane	<0.0050		0.0050	0.00078	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,1-Dichloroethene	<0.0050		0.0050	0.00080	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,2-Dichloropropane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00065	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00082	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Styrene	<0.0050		0.0050	0.00065	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Toluene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00089	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1
Xylenes, Total	<0.0099		0.0099	0.00045	mg/Kg	☼	11/07/12 14:10	11/15/12 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		76 - 120	11/07/12 14:10	11/15/12 05:26	1
Dibromofluoromethane	91		73 - 122	11/07/12 14:10	11/15/12 05:26	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/07/12 14:10	11/15/12 05:26	1
Toluene-d8 (Surr)	107		72 - 122	11/07/12 14:10	11/15/12 05:26	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<1.9		1.9	0.59	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Bis(2-chloroethyl)ether	<1.9		1.9	0.55	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
1,3-Dichlorobenzene	<1.9		1.9	0.39	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
1,4-Dichlorobenzene	<1.9		1.9	0.39	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
1,2-Dichlorobenzene	<1.9		1.9	0.40	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-1**

**Lab Sample ID: 500-52121-10**

**Date Collected: 11/07/12 14:10**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 88.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<1.9		1.9	0.49	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,2'-oxybis[1-chloropropane]	<1.9		1.9	0.41	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
N-Nitrosodi-n-propylamine	<1.9		1.9	0.47	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Hexachloroethane	<1.9		1.9	0.39	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2-Chlorophenol	<1.9		1.9	0.53	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Nitrobenzene	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Bis(2-chloroethoxy)methane	<1.9		1.9	0.41	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
1,2,4-Trichlorobenzene	<1.9		1.9	0.42	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Isophorone	<1.9		1.9	0.41	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,4-Dimethylphenol	<3.7		3.7	1.2	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Hexachlorobutadiene	<1.9		1.9	0.48	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Naphthalene	<0.37		0.37	0.071	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,4-Dichlorophenol	<3.7		3.7	1.1	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
4-Chloroaniline	<7.5		7.5	1.1	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,4,6-Trichlorophenol	<3.7		3.7	0.46	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,4,5-Trichlorophenol	<3.7		3.7	1.1	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Hexachlorocyclopentadiene	<7.5		7.5	1.7	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2-Methylnaphthalene	<1.9		1.9	0.48	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2-Nitroaniline	<1.9		1.9	0.67	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2-Chloronaphthalene	<1.9		1.9	0.42	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
4-Chloro-3-methylphenol	<3.7		3.7	1.8	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,6-Dinitrotoluene	<1.9		1.9	0.44	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2-Nitrophenol	<3.7		3.7	0.58	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
3-Nitroaniline	<3.7		3.7	0.71	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Dimethyl phthalate	<1.9		1.9	0.46	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,4-Dinitrophenol	<7.5		7.5	1.9	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Acenaphthylene	<0.37		0.37	0.085	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
2,4-Dinitrotoluene	<1.9		1.9	0.57	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Acenaphthene	<0.37		0.37	0.11	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Dibenzofuran	<1.9		1.9	0.44	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
4-Nitrophenol	<7.5		7.5	2.0	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Fluorene	<0.37		0.37	0.084	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
4-Nitroaniline	<3.7		3.7	0.76	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
4-Bromophenyl phenyl ether	<1.9		1.9	0.41	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Hexachlorobenzene	<0.75		0.75	0.073	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Diethyl phthalate	<1.9		1.9	0.62	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
4-Chlorophenyl phenyl ether	<1.9		1.9	0.58	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Pentachlorophenol	<7.5		7.5	1.9	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
N-Nitrosodiphenylamine	<1.9		1.9	0.50	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
4,6-Dinitro-2-methylphenol	<3.7		3.7	0.90	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Phenanthrene</b>	<b>0.52</b>		0.37	0.15	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Anthracene</b>	<b>0.15 J</b>		0.37	0.087	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Carbazole	<1.9		1.9	0.52	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Di-n-butyl phthalate	<1.9		1.9	0.47	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Fluoranthene</b>	<b>1.0</b>		0.37	0.15	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Pyrene</b>	<b>0.79</b>		0.37	0.13	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Butyl benzyl phthalate	<1.9		1.9	0.46	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Benzo[a]anthracene</b>	<b>0.41</b>		0.37	0.077	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Chrysene</b>	<b>0.50</b>		0.37	0.083	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-1**

**Lab Sample ID: 500-52121-10**

Date Collected: 11/07/12 14:10

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 88.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<1.9		1.9	0.31	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.63</b>	<b>J</b>	1.9	0.49	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Di-n-octyl phthalate	<1.9		1.9	0.75	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Benzo[b]fluoranthene</b>	<b>0.35</b>	<b>J</b>	0.37	0.072	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Benzo[k]fluoranthene</b>	<b>0.32</b>	<b>J</b>	0.37	0.088	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Benzo[a]pyrene</b>	<b>0.44</b>		0.37	0.067	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.17</b>	<b>J</b>	0.37	0.12	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Dibenz(a,h)anthracene	<0.37		0.37	0.10	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
Benzo[g,h,i]perylene	<0.37		0.37	0.12	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
3 & 4 Methylphenol	<1.9		1.9	0.70	mg/Kg	☼	11/19/12 07:00	11/28/12 21:25	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	75		30 - 110				11/19/12 07:00	11/28/12 21:25	10
Phenol-d5	53		31 - 110				11/19/12 07:00	11/28/12 21:25	10
Nitrobenzene-d5	56		30 - 115				11/19/12 07:00	11/28/12 21:25	10
2-Fluorobiphenyl	92		30 - 119				11/19/12 07:00	11/28/12 21:25	10
2,4,6-Tribromophenol	108		35 - 137				11/19/12 07:00	11/28/12 21:25	10
Terphenyl-d14	101		36 - 134				11/19/12 07:00	11/28/12 21:25	10

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Arsenic</b>	<b>4.4</b>		0.52	0.11	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Barium</b>	<b>34</b>		0.52	0.062	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Beryllium</b>	<b>0.48</b>		0.21	0.015	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Boron</b>	<b>4.8</b>		2.6	0.48	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Cadmium</b>	<b>0.27</b>		0.10	0.026	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Calcium</b>	<b>38000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Chromium</b>	<b>5.9</b>		0.52	0.087	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Cobalt</b>	<b>2.5</b>		0.26	0.027	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Copper</b>	<b>9.1</b>		0.52	0.14	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Iron</b>	<b>7700</b>	<b>B</b>	10	4.5	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Lead</b>	<b>29</b>	<b>B</b>	0.26	0.089	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.2	1.0	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Manganese</b>	<b>320</b>	<b>B</b>	0.52	0.073	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Nickel</b>	<b>6.3</b>		0.52	0.11	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Potassium</b>	<b>570</b>		26	2.9	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Selenium</b>	<b>0.18</b>	<b>J</b>	0.52	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Sodium</b>	<b>140</b>		52	9.5	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Thallium</b>	<b>0.19</b>	<b>J</b>	0.52	0.13	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Vanadium</b>	<b>11</b>		0.26	0.039	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1
<b>Zinc</b>	<b>35</b>		1.0	0.36	mg/Kg	☼	11/09/12 12:00	11/17/12 04:28	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/16/12 23:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/16/12 23:37	1
<b>Boron</b>	<b>0.082</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/16/12 23:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/16/12 23:37	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-1**

**Lab Sample ID: 500-52121-10**

Date Collected: 11/07/12 14:10

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 23:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 23:37	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 23:37	1
Iron	<0.20		0.20	0.20	mg/L		11/15/12 15:00	11/16/12 23:37	1
<b>Lead</b>	<b>0.0055</b>	<b>J</b>	0.0075	0.0050	mg/L		11/15/12 15:00	11/16/12 23:37	1
<b>Manganese</b>	<b>0.64</b>		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 23:37	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/16/12 23:37	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/16/12 23:37	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/16/12 23:37	1
<b>Zinc</b>	<b>0.027</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/16/12 23:37	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		11/15/12 15:00	11/17/12 23:25	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:25	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		11/16/12 13:30	11/19/12 10:29	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>		0.018	0.0068	mg/Kg	☼	11/16/12 15:00	11/19/12 12:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.91</b>		0.200	0.200	SU			11/13/12 09:45	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-2**

**Lab Sample ID: 500-52121-11**

Date Collected: 11/07/12 14:15

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 84.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Chloroethane	<0.0053	*	0.0053	0.0014	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,1-Dichloroethene	<0.0053		0.0053	0.00085	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
<b>Methylene Chloride</b>	<b>0.0077</b>		0.0053	0.0014	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/07/12 14:15	11/15/12 05:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		76 - 120	11/07/12 14:15	11/15/12 05:49	1
Dibromofluoromethane	90		73 - 122	11/07/12 14:15	11/15/12 05:49	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/07/12 14:15	11/15/12 05:49	1
Toluene-d8 (Surr)	108		72 - 122	11/07/12 14:15	11/15/12 05:49	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.062	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.041	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-2**

**Lab Sample ID: 500-52121-11**

**Date Collected: 11/07/12 14:15**

**Matrix: Solid**

**Date Received: 11/07/12 15:18**

**Percent Solids: 84.6**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.052	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Hexachloroethane	<0.20		0.20	0.041	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2-Chlorophenol	<0.20		0.20	0.056	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Isophorone	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Hexachlorobutadiene	<0.20		0.20	0.051	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Naphthalene	<0.039		0.039	0.0075	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,4,6-Trichlorophenol	<0.39		0.39	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2-Methylnaphthalene	<0.20		0.20	0.050	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2-Nitroaniline	<0.20		0.20	0.070	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.046	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2-Nitrophenol	<0.39		0.39	0.061	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
3-Nitroaniline	<0.39		0.39	0.075	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Dimethyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Acenaphthylene	<0.039		0.039	0.0089	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.060	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Fluorene	<0.039		0.039	0.0088	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
4-Nitroaniline	<0.39		0.39	0.080	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.043	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Hexachlorobenzene	<0.078		0.078	0.0077	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Diethyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.061	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.053	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.094	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Phenanthrene</b>	<b>0.018</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Anthracene	<0.039		0.039	0.0091	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Carbazole	<0.20		0.20	0.055	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Di-n-butyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Fluoranthene</b>	<b>0.018</b>	<b>J</b>	0.039	0.016	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.039	0.014	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Butyl benzyl phthalate	<0.20		0.20	0.049	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Benzo[a]anthracene</b>	<b>0.0098</b>	<b>J</b>	0.039	0.0082	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Chrysene</b>	<b>0.012</b>	<b>J</b>	0.039	0.0088	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-2**

**Lab Sample ID: 500-52121-11**

Date Collected: 11/07/12 14:15

Matrix: Solid

Date Received: 11/07/12 15:18

Percent Solids: 84.6

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.032	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.052	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Di-n-octyl phthalate	<0.20		0.20	0.079	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Benzo[b]fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0076	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
Benzo[k]fluoranthene	<0.039		0.039	0.0093	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Benzo[a]pyrene</b>	<b>0.015</b>	<b>J</b>	0.039	0.0071	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.018</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Dibenz(a,h)anthracene</b>	<b>0.014</b>	<b>J</b>	0.039	0.011	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
<b>Benzo[g,h,i]perylene</b>	<b>0.025</b>	<b>J</b>	0.039	0.013	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1
3 & 4 Methylphenol	<0.20		0.20	0.074	mg/Kg	☼	11/19/12 07:00	11/29/12 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		30 - 110	11/19/12 07:00	11/29/12 14:16	1
Phenol-d5	79		31 - 110	11/19/12 07:00	11/29/12 14:16	1
Nitrobenzene-d5	75		30 - 115	11/19/12 07:00	11/29/12 14:16	1
2-Fluorobiphenyl	77		30 - 119	11/19/12 07:00	11/29/12 14:16	1
2,4,6-Tribromophenol	67		35 - 137	11/19/12 07:00	11/29/12 14:16	1
Terphenyl-d14	98		36 - 134	11/19/12 07:00	11/29/12 14:16	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Arsenic</b>	<b>1.7</b>		0.59	0.13	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Barium</b>	<b>8.4</b>		0.59	0.070	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Beryllium</b>	<b>0.41</b>		0.23	0.017	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Boron</b>	<b>1.4</b>	<b>J</b>	2.9	0.55	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
Cadmium	<0.12		0.12	0.029	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Calcium</b>	<b>670</b>	<b>B</b>	12	2.1	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Chromium</b>	<b>6.4</b>		0.59	0.098	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Cobalt</b>	<b>2.2</b>		0.29	0.031	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Copper</b>	<b>2.9</b>		0.59	0.16	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Iron</b>	<b>6500</b>	<b>B</b>	12	5.1	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Lead</b>	<b>8.2</b>	<b>B</b>	0.29	0.10	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Magnesium</b>	<b>940</b>	<b>B</b>	5.9	1.1	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Manganese</b>	<b>37</b>	<b>B</b>	0.59	0.083	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Nickel</b>	<b>5.2</b>		0.59	0.13	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Potassium</b>	<b>310</b>		29	3.3	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
Silver	<0.29		0.29	0.035	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Sodium</b>	<b>84</b>		59	11	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
Thallium	<0.59		0.59	0.15	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Vanadium</b>	<b>15</b>		0.29	0.044	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1
<b>Zinc</b>	<b>21</b>		1.2	0.40	mg/Kg	☼	11/09/12 12:00	11/17/12 04:34	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.010	mg/L		11/15/12 15:00	11/17/12 00:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/12 15:00	11/17/12 00:02	1
<b>Boron</b>	<b>0.078</b>	<b>J</b>	0.50	0.050	mg/L		11/15/12 15:00	11/17/12 00:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/12 15:00	11/17/12 00:02	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

**Client Sample ID: 2034A-24-B15-2**

**Lab Sample ID: 500-52121-11**

Date Collected: 11/07/12 14:15

Matrix: Solid

Date Received: 11/07/12 15:18

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:02	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/17/12 00:02	1
Copper	<0.025		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:02	1
<b>Iron</b>	<b>6.4</b>		0.20	0.20	mg/L		11/15/12 15:00	11/17/12 00:02	1
<b>Lead</b>	<b>0.017</b>		0.0075	0.0050	mg/L		11/15/12 15:00	11/17/12 00:02	1
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:02	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		11/15/12 15:00	11/17/12 00:02	1
Selenium	<0.050		0.050	0.010	mg/L		11/15/12 15:00	11/17/12 00:02	1
Silver	<0.025		0.025	0.0050	mg/L		11/15/12 15:00	11/17/12 00:02	1
<b>Zinc</b>	<b>0.030</b>	<b>J</b>	0.10	0.020	mg/L		11/15/12 15:00	11/17/12 00:02	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		11/15/12 15:00	11/17/12 23:29	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		11/15/12 15:00	11/17/12 23:29	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		11/16/12 13:30	11/19/12 10:31	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.0075	mg/Kg	☼	11/16/12 15:00	11/19/12 12:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.35</b>		0.200	0.200	SU			11/13/12 09:52	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52121-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>
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 Name: <u>IL 30</u>	
Project No.: <u>IDOT2011- 053</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>4</u>	
Lab Job No.: <u>500-52121</u>	
Sample Temp: <u>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.

**Matrix Key:**  
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	PNA	Pesticides	PCBS	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	2034A-24-B23-1	11-7-12	12:55	Soil	X	X					X	X	X	X		0-4'
2	2034A-24-B23-2		1:00		X	X					X	X	X	X		4-8'
3	2034A-24-B16-1		1:15		X	X					X	X	X	X		0-4'
4	2034A-24-B16-2		1:20		X	X					X	X	X	X		4-8'
5	2034A-24-B17-1		1:25		X	X					X	X	X	X		0-4'
6	2034A-24-B17-2		1:30		X	X					X	X	X	X		4-8'
7	2034A-24-B17-Dof		1:35		X	X					X	X	X	X		0-4'
8	2034A-24-B13-1		1:55		X	X					X	X	X	X		0-4'
9	2034A-24-B13-2		2:00		X	X					X	X	X	X		4-8'
10	2034A-24-B15-1		2:10		X	X					X	X	X	X		0-4'
11	2034A-24-B15-2		2:15		X	X					X	X	X	X		4-8'
12	2034A-23-B01		2:30		X	X					X	X	X	X		0-5'

**ANALYSES**

Received by: [Signature] Date/Time: 11/7/12 15:18

Received by: [Signature] Date/Time: 11/7/12 1550

Received by: [Signature] Date/Time: 11/8/12 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: 500-52233-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
12/5/2012 2:12:06 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
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# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-1**

**Lab Sample ID: 500-52233-12**

Date Collected: 11/09/12 10:28

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 94.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0053		0.0053	0.0023	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Benzene	<0.0053		0.0053	0.00072	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Bromodichloromethane	<0.0053		0.0053	0.00091	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Bromoform	<0.0053		0.0053	0.0012	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Bromomethane	<0.0053		0.0053	0.0016	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
2-Butanone (MEK)	<0.0053		0.0053	0.0019	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Carbon disulfide	<0.0053		0.0053	0.00079	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Carbon tetrachloride	<0.0053		0.0053	0.00096	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Chlorobenzene	<0.0053		0.0053	0.00054	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Chloroethane	<0.0053	*	0.0053	0.0014	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Chloroform	<0.0053		0.0053	0.00061	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Chloromethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
cis-1,2-Dichloroethene	<0.0053		0.0053	0.00075	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
cis-1,3-Dichloropropene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Dibromochloromethane	<0.0053		0.0053	0.00092	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,1-Dichloroethane	<0.0053		0.0053	0.00084	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,2-Dichloroethane	<0.0053		0.0053	0.00078	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,1-Dichloroethene	<0.0053		0.0053	0.00086	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,2-Dichloropropane	<0.0053		0.0053	0.00080	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,3-Dichloropropene, Total	<0.0053		0.0053	0.00069	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Ethylbenzene	<0.0053		0.0053	0.0011	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
2-Hexanone	<0.0053		0.0053	0.0015	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Methylene Chloride	<0.0053		0.0053	0.0014	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0014	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Methyl tert-butyl ether	<0.0053		0.0053	0.00087	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Styrene	<0.0053		0.0053	0.00069	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,1,1,2-Tetrachloroethane	<0.0053		0.0053	0.0011	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Tetrachloroethene	<0.0053		0.0053	0.00081	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Toluene	<0.0053		0.0053	0.00074	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
trans-1,2-Dichloroethene	<0.0053		0.0053	0.00073	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
trans-1,3-Dichloropropene	<0.0053		0.0053	0.00095	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,1,1-Trichloroethane	<0.0053		0.0053	0.00079	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
1,1,2-Trichloroethane	<0.0053		0.0053	0.00072	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Trichloroethene	<0.0053		0.0053	0.00087	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Vinyl chloride	<0.0053		0.0053	0.0011	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1
Xylenes, Total	<0.011		0.011	0.00048	mg/Kg	☼	11/09/12 10:28	11/15/12 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		76 - 120	11/09/12 10:28	11/15/12 19:27	1
Dibromofluoromethane	88		73 - 122	11/09/12 10:28	11/15/12 19:27	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/09/12 10:28	11/15/12 19:27	1
Toluene-d8 (Surr)	106		72 - 122	11/09/12 10:28	11/15/12 19:27	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.86		0.86	0.27	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Bis(2-chloroethyl)ether	<0.86		0.86	0.25	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
1,3-Dichlorobenzene	<0.86		0.86	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
1,4-Dichlorobenzene	<0.86		0.86	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
1,2-Dichlorobenzene	<0.86		0.86	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-1**

**Lab Sample ID: 500-52233-12**

**Date Collected: 11/09/12 10:28**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 94.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.86		0.86	0.23	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,2'-oxybis[1-chloropropane]	<0.86		0.86	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
N-Nitrosodi-n-propylamine	<0.86		0.86	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Hexachloroethane	<0.86		0.86	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2-Chlorophenol	<0.86		0.86	0.25	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Nitrobenzene	<0.17		0.17	0.053	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Bis(2-chloroethoxy)methane	<0.86		0.86	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
1,2,4-Trichlorobenzene	<0.86		0.86	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Isophorone	<0.86		0.86	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,4-Dimethylphenol	<1.7		1.7	0.54	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Hexachlorobutadiene	<0.86		0.86	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Naphthalene	<0.17		0.17	0.033	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,4-Dichlorophenol	<1.7		1.7	0.52	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
4-Chloroaniline	<3.5		3.5	0.52	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,4,6-Trichlorophenol	<1.7		1.7	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,4,5-Trichlorophenol	<1.7		1.7	0.49	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Hexachlorocyclopentadiene	<3.5		3.5	0.80	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2-Methylnaphthalene	<0.86		0.86	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2-Nitroaniline	<0.86		0.86	0.31	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2-Chloronaphthalene	<0.86		0.86	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
4-Chloro-3-methylphenol	<1.7		1.7	0.82	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,6-Dinitrotoluene	<0.86		0.86	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2-Nitrophenol	<1.7		1.7	0.27	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
3-Nitroaniline	<1.7		1.7	0.33	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Dimethyl phthalate	<0.86		0.86	0.21	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,4-Dinitrophenol	<3.5		3.5	0.88	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Acenaphthylene	<0.17		0.17	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
2,4-Dinitrotoluene	<0.86		0.86	0.26	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Acenaphthene	<0.17		0.17	0.051	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Dibenzofuran	<0.86		0.86	0.21	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
4-Nitrophenol	<3.5		3.5	0.93	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Fluorene	<0.17		0.17	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
4-Nitroaniline	<1.7		1.7	0.35	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
4-Bromophenyl phenyl ether	<0.86		0.86	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Hexachlorobenzene	<0.35		0.35	0.034	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Diethyl phthalate	<0.86		0.86	0.29	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
4-Chlorophenyl phenyl ether	<0.86		0.86	0.27	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Pentachlorophenol	<3.5		3.5	0.87	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
N-Nitrosodiphenylamine	<0.86		0.86	0.23	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
4,6-Dinitro-2-methylphenol	<1.7		1.7	0.42	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Phenanthrene</b>	<b>0.10</b>	<b>J</b>	0.17	0.072	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Anthracene	<0.17		0.17	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Carbazole	<0.86		0.86	0.24	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Di-n-butyl phthalate	<0.86		0.86	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Fluoranthene</b>	<b>0.33</b>		0.17	0.070	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Pyrene</b>	<b>0.28</b>		0.17	0.062	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Butyl benzyl phthalate	<0.86		0.86	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Benzo[a]anthracene</b>	<b>0.15</b>	<b>J</b>	0.17	0.036	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Chrysene</b>	<b>0.16</b>	<b>J</b>	0.17	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-1**

**Lab Sample ID: 500-52233-12**

Date Collected: 11/09/12 10:28

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 94.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.86		0.86	0.14	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Bis(2-ethylhexyl) phthalate	<0.86		0.86	0.23	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Di-n-octyl phthalate	<0.86		0.86	0.35	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Benzo[b]fluoranthene</b>	<b>0.25</b>		0.17	0.033	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Benzo[k]fluoranthene</b>	<b>0.10</b>	J	0.17	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Benzo[a]pyrene</b>	<b>0.18</b>		0.17	0.031	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.13</b>	J	0.17	0.058	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Dibenz(a,h)anthracene	<0.17		0.17	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
<b>Benzo[g,h,i]perylene</b>	<b>0.16</b>	J	0.17	0.058	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
3 & 4 Methylphenol	<0.86		0.86	0.33	mg/Kg	☼	11/20/12 07:10	12/03/12 17:32	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		30 - 110				11/20/12 07:10	12/03/12 17:32	5
Phenol-d5	81		31 - 110				11/20/12 07:10	12/03/12 17:32	5
Nitrobenzene-d5	85		30 - 115				11/20/12 07:10	12/03/12 17:32	5
2-Fluorobiphenyl	88		30 - 119				11/20/12 07:10	12/03/12 17:32	5
2,4,6-Tribromophenol	104		35 - 137				11/20/12 07:10	12/03/12 17:32	5
Terphenyl-d14	89		36 - 134				11/20/12 07:10	12/03/12 17:32	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Arsenic</b>	<b>2.3</b>		0.51	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Barium</b>	<b>19</b>	B	0.51	0.061	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Beryllium</b>	<b>0.28</b>		0.21	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Boron</b>	<b>2.9</b>		2.6	0.48	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Cadmium</b>	<b>0.31</b>		0.10	0.025	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Calcium</b>	<b>42000</b>	B	10	1.8	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Chromium</b>	<b>6.5</b>		0.51	0.086	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Cobalt</b>	<b>2.5</b>		0.26	0.027	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Copper</b>	<b>9.9</b>		0.51	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Iron</b>	<b>4900</b>		10	4.5	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Lead</b>	<b>42</b>		0.26	0.088	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Magnesium</b>	<b>27000</b>	B	5.1	1.0	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Manganese</b>	<b>170</b>		0.51	0.073	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Nickel</b>	<b>6.4</b>		0.51	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Potassium</b>	<b>460</b>	B	26	2.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Sodium</b>	<b>430</b>	B	51	9.4	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Vanadium</b>	<b>8.4</b>		0.26	0.039	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1
<b>Zinc</b>	<b>38</b>	B	1.0	0.35	mg/Kg	☼	11/12/12 16:30	11/19/12 13:13	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.24</b>	J	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 04:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 04:48	1
<b>Boron</b>	<b>1.7</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 04:48	1
<b>Cadmium</b>	<b>0.0020</b>	J	0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 04:48	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-1**

**Lab Sample ID: 500-52233-12**

Date Collected: 11/09/12 10:28

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:48	1
<b>Cobalt</b>	<b>0.0052</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 04:48	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:48	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 04:48	1
<b>Lead</b>	<b>0.025</b>		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 04:48	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:48	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:48	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 04:48	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 04:48	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		11/19/12 08:00	11/20/12 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		11/19/12 08:00	11/26/12 14:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:52	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000074</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:23	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.023</b>		0.016	0.0062	mg/Kg	☼	11/20/12 19:00	11/21/12 10:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.30</b>		0.200	0.200	SU			11/15/12 08:30	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-2**

**Lab Sample ID: 500-52233-13**

Date Collected: 11/09/12 10:33

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 91.4

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Chloroethane	<0.0052	*	0.0052	0.0014	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,1-Dichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,2-Dichloropropane	<0.0052		0.0052	0.00080	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
<b>Methylene Chloride</b>	<b>0.0062</b>		0.0052	0.0014	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00087	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/09/12 10:33	11/15/12 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		76 - 120	11/09/12 10:33	11/15/12 23:38	1
Dibromofluoromethane	89		73 - 122	11/09/12 10:33	11/15/12 23:38	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/09/12 10:33	11/15/12 23:38	1
Toluene-d8 (Surr)	104		72 - 122	11/09/12 10:33	11/15/12 23:38	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.89		0.89	0.28	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Bis(2-chloroethyl)ether	<0.89		0.89	0.26	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
1,3-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
1,4-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
1,2-Dichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-2**

**Lab Sample ID: 500-52233-13**

Date Collected: 11/09/12 10:33

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 91.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.89		0.89	0.24	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,2'-oxybis[1-chloropropane]	<0.89		0.89	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
N-Nitrosodi-n-propylamine	<0.89		0.89	0.23	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Hexachloroethane	<0.89		0.89	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2-Chlorophenol	<0.89		0.89	0.25	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Nitrobenzene	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Bis(2-chloroethoxy)methane	<0.89		0.89	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
1,2,4-Trichlorobenzene	<0.89		0.89	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Isophorone	<0.89		0.89	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,4-Dimethylphenol	<1.8		1.8	0.56	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Hexachlorobutadiene	<0.89		0.89	0.23	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Naphthalene	<0.18		0.18	0.034	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,4-Dichlorophenol	<1.8		1.8	0.54	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
4-Chloroaniline	<3.6		3.6	0.54	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,4,6-Trichlorophenol	<1.8		1.8	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,4,5-Trichlorophenol	<1.8		1.8	0.51	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Hexachlorocyclopentadiene	<3.6		3.6	0.82	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2-Methylnaphthalene	<0.89		0.89	0.23	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2-Nitroaniline	<0.89		0.89	0.32	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2-Chloronaphthalene	<0.89		0.89	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
4-Chloro-3-methylphenol	<1.8		1.8	0.85	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,6-Dinitrotoluene	<0.89		0.89	0.21	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2-Nitrophenol	<1.8		1.8	0.28	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
3-Nitroaniline	<1.8		1.8	0.34	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Dimethyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,4-Dinitrophenol	<3.6		3.6	0.91	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Acenaphthylene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
2,4-Dinitrotoluene	<0.89		0.89	0.27	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Acenaphthene	<0.18		0.18	0.053	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Dibenzofuran	<0.89		0.89	0.21	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
4-Nitrophenol	<3.6		3.6	0.96	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Fluorene</b>	<b>0.062 J</b>		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
4-Nitroaniline	<1.8		1.8	0.36	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
4-Bromophenyl phenyl ether	<0.89		0.89	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Hexachlorobenzene	<0.36		0.36	0.035	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Diethyl phthalate	<0.89		0.89	0.30	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
4-Chlorophenyl phenyl ether	<0.89		0.89	0.28	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Pentachlorophenol	<3.6		3.6	0.90	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
N-Nitrosodiphenylamine	<0.89		0.89	0.24	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.43	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Phenanthrene</b>	<b>1.4</b>		0.18	0.074	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Anthracene</b>	<b>0.19</b>		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Carbazole	<0.89		0.89	0.25	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Di-n-butyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Fluoranthene</b>	<b>2.3</b>		0.18	0.073	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Pyrene</b>	<b>1.9</b>		0.18	0.064	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Butyl benzyl phthalate	<0.89		0.89	0.22	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Benzo[a]anthracene</b>	<b>0.92</b>		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Chrysene</b>	<b>1.2</b>		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-2**

**Lab Sample ID: 500-52233-13**

Date Collected: 11/09/12 10:33

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 91.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.89		0.89	0.15	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Bis(2-ethylhexyl) phthalate	<0.89		0.89	0.24	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Di-n-octyl phthalate	<0.89		0.89	0.36	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Benzo[b]fluoranthene</b>	<b>1.3</b>		0.18	0.035	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Benzo[k]fluoranthene</b>	<b>0.65</b>		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Benzo[a]pyrene</b>	<b>0.96</b>		0.18	0.032	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.68</b>		0.18	0.060	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Dibenz(a,h)anthracene	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
<b>Benzo[g,h,i]perylene</b>	<b>0.80</b>		0.18	0.060	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
3 & 4 Methylphenol	<0.89		0.89	0.34	mg/Kg	☼	11/20/12 07:10	12/03/12 17:56	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		30 - 110				11/20/12 07:10	12/03/12 17:56	5
Phenol-d5	93		31 - 110				11/20/12 07:10	12/03/12 17:56	5
Nitrobenzene-d5	93		30 - 115				11/20/12 07:10	12/03/12 17:56	5
2-Fluorobiphenyl	84		30 - 119				11/20/12 07:10	12/03/12 17:56	5
2,4,6-Tribromophenol	101		35 - 137				11/20/12 07:10	12/03/12 17:56	5
Terphenyl-d14	86		36 - 134				11/20/12 07:10	12/03/12 17:56	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Arsenic</b>	<b>4.0</b>		0.50	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Barium</b>	<b>42</b>	<b>B</b>	0.50	0.060	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Beryllium</b>	<b>0.57</b>		0.20	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Boron</b>	<b>7.6</b>		2.5	0.47	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Cadmium</b>	<b>0.49</b>		0.10	0.025	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Calcium</b>	<b>65000</b>	<b>B</b>	100	18	mg/Kg	☼	11/12/12 16:30	11/20/12 12:03	10
<b>Chromium</b>	<b>10</b>		0.50	0.084	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Cobalt</b>	<b>2.8</b>		0.25	0.026	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Copper</b>	<b>13</b>		0.50	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Iron</b>	<b>8800</b>		10	4.4	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Lead</b>	<b>36</b>		0.25	0.087	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Magnesium</b>	<b>33000</b>	<b>B</b>	5.0	0.98	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Manganese</b>	<b>300</b>		0.50	0.071	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Nickel</b>	<b>7.8</b>		0.50	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Potassium</b>	<b>790</b>	<b>B</b>	25	2.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
Selenium	<0.50		0.50	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Sodium</b>	<b>590</b>	<b>B</b>	50	9.2	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
Thallium	<0.50		0.50	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Vanadium</b>	<b>15</b>		0.25	0.038	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1
<b>Zinc</b>	<b>42</b>	<b>B</b>	1.0	0.35	mg/Kg	☼	11/12/12 16:30	11/19/12 13:21	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 04:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 04:54	1
<b>Boron</b>	<b>1.6</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 04:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 04:54	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B03-2**

**Lab Sample ID: 500-52233-13**

Date Collected: 11/09/12 10:33

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 04:54	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:54	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 04:54	1
<b>Lead</b>	<b>0.0066</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 04:54	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:54	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:54	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 04:54	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 04:54	1
<b>Zinc</b>	<b>0.071</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 04:54	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		11/19/12 08:00	11/26/12 14:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:53	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000074</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:24	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.028</b>		0.017	0.0066	mg/Kg	☆	11/20/12 19:00	11/21/12 10:55	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			11/15/12 08:33	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-1**

**Lab Sample ID: 500-52233-14**

Date Collected: 11/09/12 11:12

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0023	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Benzene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Chloroethane	<0.0052	*	0.0052	0.0014	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00069	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Dibromochloromethane	<0.0052		0.0052	0.00091	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,1-Dichloroethane	<0.0052		0.0052	0.00083	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,2-Dichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,1-Dichloroethene	<0.0052		0.0052	0.00085	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,2-Dichloropropane	<0.0052		0.0052	0.00080	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00069	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00087	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Styrene	<0.0052		0.0052	0.00069	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,1,1,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Tetrachloroethene	<0.0052		0.0052	0.00080	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00094	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/09/12 11:12	11/16/12 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	11/09/12 11:12	11/16/12 00:01	1
Dibromofluoromethane	85		73 - 122	11/09/12 11:12	11/16/12 00:01	1
1,2-Dichloroethane-d4 (Surr)	87		74 - 123	11/09/12 11:12	11/16/12 00:01	1
Toluene-d8 (Surr)	106		72 - 122	11/09/12 11:12	11/16/12 00:01	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1

TestAmerica Chicago

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Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-1**

**Lab Sample ID: 500-52233-14**

Date Collected: 11/09/12 11:12

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2-Chlorophenol	<0.18		0.18	0.051	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
4-Chloroaniline	<0.72		0.72	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,4,6-Trichlorophenol	<0.35		0.35	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Hexachlorocyclopentadiene	<0.72		0.72	0.16	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2-Nitrophenol	<0.35		0.35	0.056	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
3-Nitroaniline	<0.35		0.35	0.069	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,4-Dinitrophenol	<0.72		0.72	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Acenaphthylene	<0.035		0.035	0.0082	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Acenaphthene</b>	<b>0.013</b>	<b>J</b>	0.035	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
4-Nitrophenol	<0.72		0.72	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Fluorene</b>	<b>0.014</b>	<b>J</b>	0.035	0.0081	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
4-Nitroaniline	<0.35		0.35	0.073	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Hexachlorobenzene	<0.072		0.072	0.0070	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Pentachlorophenol	<0.72		0.72	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Phenanthrene</b>	<b>0.33</b>		0.035	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Anthracene</b>	<b>0.070</b>		0.035	0.0084	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Fluoranthene</b>	<b>0.54</b>		0.035	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Pyrene</b>	<b>0.49</b>		0.035	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Benzo[a]anthracene</b>	<b>0.24</b>		0.035	0.0074	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Chrysene</b>	<b>0.29</b>		0.035	0.0080	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1

TestAmerica Chicago

# Client Sample Results

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Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-1**

**Lab Sample ID: 500-52233-14**

Date Collected: 11/09/12 11:12

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Benzo[b]fluoranthene</b>	<b>0.32</b>		0.035	0.0069	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Benzo[k]fluoranthene</b>	<b>0.12</b>		0.035	0.0085	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Benzo[a]pyrene</b>	<b>0.20</b>		0.035	0.0065	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.11</b>		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Dibenz[a,h]anthracene</b>	<b>0.031</b>	J	0.035	0.0099	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Benzo[g,h,i]perylene</b>	<b>0.12</b>		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/20/12 07:10	12/03/12 18:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	65		30 - 110				11/20/12 07:10	12/03/12 18:20	1
Phenol-d5	75		31 - 110				11/20/12 07:10	12/03/12 18:20	1
Nitrobenzene-d5	73		30 - 115				11/20/12 07:10	12/03/12 18:20	1
2-Fluorobiphenyl	84		30 - 119				11/20/12 07:10	12/03/12 18:20	1
2,4,6-Tribromophenol	92		35 - 137				11/20/12 07:10	12/03/12 18:20	1
Terphenyl-d14	86		36 - 134				11/20/12 07:10	12/03/12 18:20	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Arsenic</b>	<b>6.8</b>		0.54	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Barium</b>	<b>69</b>	B	0.54	0.065	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Beryllium</b>	<b>0.55</b>		0.22	0.016	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Boron</b>	<b>8.3</b>		2.7	0.51	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Cadmium</b>	<b>0.59</b>		0.11	0.027	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Calcium</b>	<b>46000</b>	B	11	1.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Chromium</b>	<b>12</b>		0.54	0.091	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Cobalt</b>	<b>9.4</b>		0.27	0.028	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Copper</b>	<b>14</b>		0.54	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Iron</b>	<b>14000</b>		11	4.7	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Lead</b>	<b>19</b>		0.27	0.093	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Magnesium</b>	<b>27000</b>	B	5.4	1.1	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Manganese</b>	<b>630</b>		5.4	0.77	mg/Kg	☼	11/12/12 16:30	11/20/12 12:07	10
<b>Nickel</b>	<b>18</b>		0.54	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Potassium</b>	<b>1600</b>	B	27	3.1	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
Selenium	<0.54		0.54	0.16	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
Silver	<0.27		0.27	0.033	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Sodium</b>	<b>210</b>	B	54	9.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Thallium</b>	<b>0.30</b>	J	0.54	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Vanadium</b>	<b>17</b>		0.27	0.041	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1
<b>Zinc</b>	<b>33</b>	B	1.1	0.37	mg/Kg	☼	11/12/12 16:30	11/19/12 13:27	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.39</b>	J	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 05:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 05:01	1
<b>Boron</b>	<b>1.6</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 05:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 05:01	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-1**

**Lab Sample ID: 500-52233-14**

Date Collected: 11/09/12 11:12

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:01	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:01	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 05:01	1
<b>Lead</b>	<b>0.0052</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 05:01	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:01	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:01	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 05:01	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:01	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 05:01	1

**Method: 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.030</b>		0.025	0.010	mg/L		11/23/12 08:00	11/24/12 05:03	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		11/19/12 08:00	11/26/12 14:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:54	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000078</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:26	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0083</b>	<b>J</b>	0.018	0.0067	mg/Kg	☼	11/20/12 19:00	11/21/12 10:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.21</b>		0.200	0.200	SU			11/15/12 08:36	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-2**

**Lab Sample ID: 500-52233-15**

Date Collected: 11/09/12 11:17

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0056		0.0056	0.0024	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Benzene	<0.0056		0.0056	0.00077	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Bromodichloromethane	<0.0056		0.0056	0.00097	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Bromoform	<0.0056		0.0056	0.0013	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Bromomethane	<0.0056		0.0056	0.0017	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
2-Butanone (MEK)	<0.0056		0.0056	0.0020	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Carbon disulfide	<0.0056		0.0056	0.00084	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Carbon tetrachloride	<0.0056		0.0056	0.0010	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Chlorobenzene	<0.0056		0.0056	0.00057	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Chloroethane	<0.0056	*	0.0056	0.0015	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Chloroform	<0.0056		0.0056	0.00065	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Chloromethane	<0.0056		0.0056	0.0012	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
cis-1,2-Dichloroethene	<0.0056		0.0056	0.00080	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
cis-1,3-Dichloropropene	<0.0056		0.0056	0.00074	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Dibromochloromethane	<0.0056		0.0056	0.00098	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,1-Dichloroethane	<0.0056		0.0056	0.00089	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,2-Dichloroethane	<0.0056		0.0056	0.00083	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,1-Dichloroethene	<0.0056		0.0056	0.00091	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,2-Dichloropropane	<0.0056		0.0056	0.00085	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,3-Dichloropropene, Total	<0.0056		0.0056	0.00074	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Ethylbenzene	<0.0056		0.0056	0.0011	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
2-Hexanone	<0.0056		0.0056	0.0016	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Methylene Chloride	<0.0056		0.0056	0.0015	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
4-Methyl-2-pentanone (MIBK)	<0.0056		0.0056	0.0015	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Methyl tert-butyl ether	<0.0056		0.0056	0.00093	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Styrene	<0.0056		0.0056	0.00074	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,1,1,2-Tetrachloroethane	<0.0056		0.0056	0.0011	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Tetrachloroethene	<0.0056		0.0056	0.00086	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Toluene	<0.0056		0.0056	0.00079	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
trans-1,2-Dichloroethene	<0.0056		0.0056	0.00077	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
trans-1,3-Dichloropropene	<0.0056		0.0056	0.0010	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,1,1-Trichloroethane	<0.0056		0.0056	0.00084	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
1,1,2-Trichloroethane	<0.0056		0.0056	0.00077	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Trichloroethene	<0.0056		0.0056	0.00093	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Vinyl chloride	<0.0056		0.0056	0.0012	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1
Xylenes, Total	<0.011		0.011	0.00051	mg/Kg	☼	11/09/12 11:17	11/16/12 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		76 - 120	11/09/12 11:17	11/16/12 00:24	1
Dibromofluoromethane	83		73 - 122	11/09/12 11:17	11/16/12 00:24	1
1,2-Dichloroethane-d4 (Surr)	86		74 - 123	11/09/12 11:17	11/16/12 00:24	1
Toluene-d8 (Surr)	107		72 - 122	11/09/12 11:17	11/16/12 00:24	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-2**

**Lab Sample ID: 500-52233-15**

Date Collected: 11/09/12 11:17

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2-Chlorophenol	<0.18		0.18	0.053	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Isophorone	<0.18		0.18	0.041	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,4,5-Trichlorophenol	<0.36		0.36	0.11	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Carbazole	<0.18		0.18	0.052	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Pyrene	<0.036		0.036	0.013	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	*	11/20/12 07:10	12/03/12 18:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-2**

**Lab Sample ID: 500-52233-15**

Date Collected: 11/09/12 11:17

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Di-n-octyl phthalate	<0.18		0.18	0.075	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Benzo[b]fluoranthene	<0.036		0.036	0.0071	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Benzo[a]pyrene	<0.036		0.036	0.0067	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1
3 & 4 Methylphenol	<0.18		0.18	0.070	mg/Kg	☼	11/20/12 07:10	12/03/12 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	55		30 - 110	11/20/12 07:10	12/03/12 18:44	1
Phenol-d5	63		31 - 110	11/20/12 07:10	12/03/12 18:44	1
Nitrobenzene-d5	59		30 - 115	11/20/12 07:10	12/03/12 18:44	1
2-Fluorobiphenyl	68		30 - 119	11/20/12 07:10	12/03/12 18:44	1
2,4,6-Tribromophenol	95		35 - 137	11/20/12 07:10	12/03/12 18:44	1
Terphenyl-d14	83		36 - 134	11/20/12 07:10	12/03/12 18:44	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Arsenic</b>	<b>1.7</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Barium</b>	<b>16</b>	<b>B</b>	0.52	0.062	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Beryllium</b>	<b>0.24</b>		0.21	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Boron</b>	<b>1.9</b>	<b>J</b>	2.6	0.48	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Cadmium</b>	<b>0.032</b>	<b>J</b>	0.10	0.026	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Calcium</b>	<b>2200</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Chromium</b>	<b>3.9</b>		0.52	0.087	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Cobalt</b>	<b>1.4</b>		0.26	0.027	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Copper</b>	<b>2.1</b>		0.52	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Iron</b>	<b>4200</b>		10	4.5	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Lead</b>	<b>3.6</b>		0.26	0.089	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Magnesium</b>	<b>1100</b>	<b>B</b>	5.2	1.0	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Manganese</b>	<b>57</b>		0.52	0.073	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Nickel</b>	<b>3.9</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Potassium</b>	<b>390</b>	<b>B</b>	26	2.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Sodium</b>	<b>100</b>	<b>B</b>	52	9.5	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Vanadium</b>	<b>6.4</b>		0.26	0.039	mg/Kg	☼	11/12/12 16:30	11/19/12 13:34	1
<b>Zinc</b>	<b>11</b>		1.1	0.36	mg/Kg	☼	11/19/12 16:00	11/20/12 14:38	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 05:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 05:07	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 05:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 05:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B02-2**

**Lab Sample ID: 500-52233-15**

Date Collected: 11/09/12 11:17

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:07	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:07	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:07	1
<b>Iron</b>	<b>0.45</b>		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 05:07	1
<b>Lead</b>	<b>0.0056</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 05:07	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:07	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:07	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 05:07	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:07	1
<b>Zinc</b>	<b>0.030</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 05:07	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		11/19/12 08:00	11/26/12 14:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:54	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000079</b>	<b>J ^</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:32	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0062	mg/Kg	☼	11/20/12 19:00	11/21/12 11:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.31</b>		0.200	0.200	SU			11/15/12 08:38	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1**

**Lab Sample ID: 500-52233-16**

Date Collected: 11/09/12 10:43

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 87.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0037		0.0037	0.0016	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Benzene	<0.0037		0.0037	0.00050	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Bromoform	<0.0037		0.0037	0.00085	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Bromomethane	<0.0037		0.0037	0.0011	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Carbon disulfide	<0.0037		0.0037	0.00055	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Carbon tetrachloride	<0.0037		0.0037	0.00067	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Chlorobenzene	<0.0037		0.0037	0.00037	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Chloroethane	<0.0037	*	0.0037	0.0010	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Chloroform	<0.0037		0.0037	0.00042	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Chloromethane	<0.0037		0.0037	0.00077	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00052	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00048	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Dibromochloromethane	<0.0037		0.0037	0.00064	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,1-Dichloroethane	<0.0037		0.0037	0.00058	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,1-Dichloroethene	<0.0037		0.0037	0.00060	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,2-Dichloropropane	<0.0037		0.0037	0.00056	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.00048	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Ethylbenzene	<0.0037		0.0037	0.00074	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Methylene Chloride	<0.0037		0.0037	0.00099	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00097	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00061	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Styrene	<0.0037		0.0037	0.00048	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00074	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Tetrachloroethene	<0.0037		0.0037	0.00056	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Toluene	<0.0037		0.0037	0.00052	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00051	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.00066	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00050	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Trichloroethene	<0.0037		0.0037	0.00061	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Vinyl chloride	<0.0037		0.0037	0.00077	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1
Xylenes, Total	<0.0074		0.0074	0.00033	mg/Kg	☼	11/09/12 10:43	11/16/12 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	11/09/12 10:43	11/16/12 00:47	1
Dibromofluoromethane	88		73 - 122	11/09/12 10:43	11/16/12 00:47	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/09/12 10:43	11/16/12 00:47	1
Toluene-d8 (Surr)	108		72 - 122	11/09/12 10:43	11/16/12 00:47	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<3.7		3.7	1.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Bis(2-chloroethyl)ether	<3.7		3.7	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
1,3-Dichlorobenzene	<3.7		3.7	0.77	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
1,4-Dichlorobenzene	<3.7		3.7	0.77	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
1,2-Dichlorobenzene	<3.7		3.7	0.80	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1**

**Lab Sample ID: 500-52233-16**

Date Collected: 11/09/12 10:43

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 87.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<3.7		3.7	0.98	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,2'-oxybis[1-chloropropane]	<3.7		3.7	0.81	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
N-Nitrosodi-n-propylamine	<3.7		3.7	0.93	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Hexachloroethane	<3.7		3.7	0.78	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2-Chlorophenol	<3.7		3.7	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Nitrobenzene	<0.73		0.73	0.23	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Bis(2-chloroethoxy)methane	<3.7		3.7	0.81	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
1,2,4-Trichlorobenzene	<3.7		3.7	0.83	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Isophorone	<3.7		3.7	0.82	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,4-Dimethylphenol	<7.3		7.3	2.3	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Hexachlorobutadiene	<3.7		3.7	0.96	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Naphthalene	<0.73		0.73	0.14	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,4-Dichlorophenol	<7.3		7.3	2.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
4-Chloroaniline	<15		15	2.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,4,6-Trichlorophenol	<7.3		7.3	0.92	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,4,5-Trichlorophenol	<7.3		7.3	2.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Hexachlorocyclopentadiene	<15		15	3.4	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2-Methylnaphthalene	<3.7		3.7	0.95	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2-Nitroaniline	<3.7		3.7	1.3	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2-Chloronaphthalene	<3.7		3.7	0.83	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
4-Chloro-3-methylphenol	<7.3		7.3	3.5	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,6-Dinitrotoluene	<3.7		3.7	0.87	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2-Nitrophenol	<7.3		7.3	1.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
3-Nitroaniline	<7.3		7.3	1.4	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Dimethyl phthalate	<3.7		3.7	0.92	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,4-Dinitrophenol	<15		15	3.8	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Acenaphthylene	<0.73		0.73	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
2,4-Dinitrotoluene	<3.7		3.7	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Acenaphthene	<0.73		0.73	0.22	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Dibenzofuran	<3.7		3.7	0.88	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
4-Nitrophenol	<15		15	4.0	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Fluorene	<0.73		0.73	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
4-Nitroaniline	<7.3		7.3	1.5	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
4-Bromophenyl phenyl ether	<3.7		3.7	0.82	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Hexachlorobenzene	<1.5		1.5	0.14	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Diethyl phthalate	<3.7		3.7	1.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
4-Chlorophenyl phenyl ether	<3.7		3.7	1.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Pentachlorophenol	<15		15	3.7	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
N-Nitrosodiphenylamine	<3.7		3.7	0.99	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
4,6-Dinitro-2-methylphenol	<7.3		7.3	1.8	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Phenanthrene</b>	<b>1.7</b>		0.73	0.31	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Anthracene</b>	<b>0.36 J</b>		0.73	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Carbazole	<3.7		3.7	1.0	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Di-n-butyl phthalate	<3.7		3.7	0.93	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Fluoranthene</b>	<b>2.8</b>		0.73	0.30	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Pyrene</b>	<b>2.0</b>		0.73	0.27	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Butyl benzyl phthalate	<3.7		3.7	0.92	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Benzo[a]anthracene</b>	<b>1.3</b>		0.73	0.15	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Chrysene</b>	<b>1.2</b>		0.73	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1**

**Lab Sample ID: 500-52233-16**

Date Collected: 11/09/12 10:43

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 87.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<3.7		3.7	0.61	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Bis(2-ethylhexyl) phthalate	<3.7		3.7	0.97	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Di-n-octyl phthalate	<3.7		3.7	1.5	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Benzo[b]fluoranthene</b>	<b>1.4</b>		0.73	0.14	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Benzo[k]fluoranthene</b>	<b>0.64 J</b>		0.73	0.18	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Benzo[a]pyrene</b>	<b>1.1</b>		0.73	0.13	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.64 J</b>		0.73	0.25	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Dibenz(a,h)anthracene</b>	<b>0.24 J</b>		0.73	0.21	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
<b>Benzo[g,h,i]perylene</b>	<b>0.69 J</b>		0.73	0.25	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
3 & 4 Methylphenol	<3.7		3.7	1.4	mg/Kg	☼	11/20/12 07:10	12/04/12 17:05	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		30 - 110				11/20/12 07:10	12/04/12 17:05	20
Phenol-d5	87		31 - 110				11/20/12 07:10	12/04/12 17:05	20
Nitrobenzene-d5	78		30 - 115				11/20/12 07:10	12/04/12 17:05	20
2-Fluorobiphenyl	89		30 - 119				11/20/12 07:10	12/04/12 17:05	20
2,4,6-Tribromophenol	90		35 - 137				11/20/12 07:10	12/04/12 17:05	20
Terphenyl-d14	97		36 - 134				11/20/12 07:10	12/04/12 17:05	20

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Arsenic</b>	<b>4.9</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Barium</b>	<b>54 B</b>		0.52	0.062	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Beryllium</b>	<b>0.75</b>		0.21	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Boron</b>	<b>8.3</b>		2.6	0.49	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Cadmium</b>	<b>0.59</b>		0.10	0.026	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Calcium</b>	<b>31000 B</b>		10	1.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Chromium</b>	<b>10</b>		0.52	0.088	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Cobalt</b>	<b>4.6</b>		0.26	0.028	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Copper</b>	<b>18</b>		0.52	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Iron</b>	<b>11000</b>		10	4.5	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Lead</b>	<b>75</b>		0.26	0.090	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Magnesium</b>	<b>15000 B</b>		5.2	1.0	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Manganese</b>	<b>450</b>		0.52	0.074	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Nickel</b>	<b>11</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Potassium</b>	<b>870 B</b>		26	3.0	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
Silver	<0.26		0.26	0.032	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Sodium</b>	<b>230 B</b>		52	9.6	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Thallium</b>	<b>0.24 J</b>		0.52	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Vanadium</b>	<b>14</b>		0.26	0.040	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1
<b>Zinc</b>	<b>78 B</b>		1.0	0.36	mg/Kg	☼	11/12/12 16:30	11/19/12 13:40	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.43 J</b>		0.50	0.010	mg/L		11/19/12 08:00	11/20/12 05:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 05:28	1
<b>Boron</b>	<b>1.5</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 05:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 05:28	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1**

**Lab Sample ID: 500-52233-16**

Date Collected: 11/09/12 10:43

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:28	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:28	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:28	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 05:28	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 05:28	1
<b>Manganese</b>	<b>0.89</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:28	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:28	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 05:28	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:28	1
<b>Zinc</b>	<b>0.083</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 05:28	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		11/19/12 08:00	11/26/12 14:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:55	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000071</b>	<b>J ^</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:34	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.021</b>		0.019	0.0071	mg/Kg	☼	11/20/12 19:00	11/21/12 11:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.77</b>		0.200	0.200	SU			11/15/12 08:41	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-2**

**Lab Sample ID: 500-52233-17**

Date Collected: 11/09/12 10:48

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 92.8

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0082</b>		0.0050	0.0022	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Benzene	<0.0050		0.0050	0.00068	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Bromodichloromethane	<0.0050		0.0050	0.00086	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Bromoform	<0.0050		0.0050	0.0011	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Bromomethane	<0.0050		0.0050	0.0015	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
<b>2-Butanone (MEK)</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0018	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Carbon disulfide	<0.0050		0.0050	0.00075	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Carbon tetrachloride	<0.0050		0.0050	0.00091	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Chlorobenzene	<0.0050		0.0050	0.00051	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Chloroethane	<0.0050	*	0.0050	0.0014	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Chloroform	<0.0050		0.0050	0.00057	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Chloromethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.00071	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Dibromochloromethane	<0.0050		0.0050	0.00087	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,1-Dichloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,1-Dichloroethene	<0.0050		0.0050	0.00081	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,2-Dichloropropane	<0.0050		0.0050	0.00076	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.00066	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Ethylbenzene	<0.0050		0.0050	0.0010	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
2-Hexanone	<0.0050		0.0050	0.0014	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Methylene Chloride	<0.0050		0.0050	0.0013	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0013	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Methyl tert-butyl ether	<0.0050		0.0050	0.00083	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Styrene	<0.0050		0.0050	0.00066	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,1,1,2-Tetrachloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Tetrachloroethene	<0.0050		0.0050	0.00076	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Toluene	<0.0050		0.0050	0.00070	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.00069	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.00090	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.00075	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00068	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Trichloroethene	<0.0050		0.0050	0.00082	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Vinyl chloride	<0.0050		0.0050	0.0010	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1
Xylenes, Total	<0.010		0.010	0.00045	mg/Kg	☼	11/09/12 10:48	11/16/12 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/09/12 10:48	11/16/12 01:09	1
Dibromofluoromethane	87		73 - 122	11/09/12 10:48	11/16/12 01:09	1
1,2-Dichloroethane-d4 (Surr)	90		74 - 123	11/09/12 10:48	11/16/12 01:09	1
Toluene-d8 (Surr)	106		72 - 122	11/09/12 10:48	11/16/12 01:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-2**

**Lab Sample ID: 500-52233-17**

Date Collected: 11/09/12 10:48

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 92.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2-Nitroaniline	<0.18		0.18	0.064	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Hexachlorobenzene	<0.071		0.071	0.0070	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.056	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.086	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Phenanthrene</b>	<b>0.053</b>		0.035	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Carbazole	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Fluoranthene</b>	<b>0.092</b>		0.035	0.014	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Pyrene</b>	<b>0.084</b>		0.035	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Benzo[a]anthracene</b>	<b>0.038</b>		0.035	0.0074	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Chrysene</b>	<b>0.065</b>		0.035	0.0080	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-2**

**Lab Sample ID: 500-52233-17**

Date Collected: 11/09/12 10:48

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 92.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Di-n-octyl phthalate	<0.18		0.18	0.072	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Benzo[b]fluoranthene</b>	<b>0.047</b>		0.035	0.0069	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Benzo[k]fluoranthene</b>	<b>0.046</b>		0.035	0.0084	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
<b>Benzo[a]pyrene</b>	<b>0.049</b>		0.035	0.0064	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0099	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/20/12 07:10	12/03/12 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		30 - 110				11/20/12 07:10	12/03/12 19:31	1
Phenol-d5	83		31 - 110				11/20/12 07:10	12/03/12 19:31	1
Nitrobenzene-d5	73		30 - 115				11/20/12 07:10	12/03/12 19:31	1
2-Fluorobiphenyl	85		30 - 119				11/20/12 07:10	12/03/12 19:31	1
2,4,6-Tribromophenol	96		35 - 137				11/20/12 07:10	12/03/12 19:31	1
Terphenyl-d14	88		36 - 134				11/20/12 07:10	12/03/12 19:31	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Arsenic</b>	<b>2.4</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Barium</b>	<b>16 B</b>		0.52	0.062	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Beryllium</b>	<b>0.33</b>		0.21	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Boron</b>	<b>3.4</b>		2.6	0.48	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Cadmium</b>	<b>0.29</b>		0.10	0.026	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Calcium</b>	<b>30000 B</b>		10	1.8	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Chromium</b>	<b>8.0</b>		0.52	0.087	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Cobalt</b>	<b>2.6</b>		0.26	0.027	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Copper</b>	<b>8.8</b>		0.52	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Iron</b>	<b>7000</b>		10	4.5	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Lead</b>	<b>25</b>		0.26	0.089	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Magnesium</b>	<b>20000 B</b>		5.2	1.0	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Manganese</b>	<b>120</b>		0.52	0.073	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Nickel</b>	<b>7.4</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Potassium</b>	<b>530 B</b>		26	2.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Sodium</b>	<b>110 B</b>		52	9.5	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Vanadium</b>	<b>10</b>		0.26	0.039	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1
<b>Zinc</b>	<b>35 B</b>		1.0	0.36	mg/Kg	☼	11/12/12 16:30	11/19/12 13:46	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.28 J</b>		0.50	0.010	mg/L		11/19/12 08:00	11/20/12 05:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 05:34	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 05:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 05:34	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-2**

**Lab Sample ID: 500-52233-17**

Date Collected: 11/09/12 10:48

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:34	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:34	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:34	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 05:34	1
<b>Lead</b>	<b>0.0097</b>		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 05:34	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:34	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:34	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 05:34	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:34	1
<b>Zinc</b>	<b>0.085 J</b>		0.10	0.020	mg/L		11/19/12 08:00	11/20/12 05:34	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		11/19/12 08:00	11/26/12 14:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:56	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000077</b>	<b>J ^</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:36	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0062	mg/Kg	☼	11/20/12 19:00	11/21/12 11:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.95</b>		0.200	0.200	SU			11/15/12 08:43	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1-DUP**

**Lab Sample ID: 500-52233-18**

**Date Collected: 11/09/12 10:53**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 92.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0058		0.0058	0.0025	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Benzene	<0.0058		0.0058	0.00079	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Bromodichloromethane	<0.0058		0.0058	0.00099	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Bromoform	<0.0058		0.0058	0.0013	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Bromomethane	<0.0058		0.0058	0.0017	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
2-Butanone (MEK)	<0.0058		0.0058	0.0021	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Carbon disulfide	<0.0058		0.0058	0.00086	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Carbon tetrachloride	<0.0058		0.0058	0.0011	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Chlorobenzene	<0.0058		0.0058	0.00059	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Chloroethane	<0.0058	*	0.0058	0.0016	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Chloroform	<0.0058		0.0058	0.00066	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Chloromethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
cis-1,2-Dichloroethene	<0.0058		0.0058	0.00082	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
cis-1,3-Dichloropropene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Dibromochloromethane	<0.0058		0.0058	0.0010	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,1-Dichloroethane	<0.0058		0.0058	0.00091	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,2-Dichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,1-Dichloroethene	<0.0058		0.0058	0.00093	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,2-Dichloropropane	<0.0058		0.0058	0.00088	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,3-Dichloropropene, Total	<0.0058		0.0058	0.00076	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Ethylbenzene	<0.0058		0.0058	0.0012	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
2-Hexanone	<0.0058		0.0058	0.0017	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Methylene Chloride	<0.0058		0.0058	0.0016	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
4-Methyl-2-pentanone (MIBK)	<0.0058		0.0058	0.0015	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Methyl tert-butyl ether	<0.0058		0.0058	0.00095	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Styrene	<0.0058		0.0058	0.00076	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,1,1,2-Tetrachloroethane	<0.0058		0.0058	0.0012	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Tetrachloroethene	<0.0058		0.0058	0.00088	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Toluene	<0.0058		0.0058	0.00081	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
trans-1,2-Dichloroethene	<0.0058		0.0058	0.00079	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
trans-1,3-Dichloropropene	<0.0058		0.0058	0.0010	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,1,1-Trichloroethane	<0.0058		0.0058	0.00086	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
1,1,2-Trichloroethane	<0.0058		0.0058	0.00079	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Trichloroethene	<0.0058		0.0058	0.00095	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Vinyl chloride	<0.0058		0.0058	0.0012	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1
Xylenes, Total	<0.012		0.012	0.00052	mg/Kg	☼	11/09/12 10:53	11/16/12 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		76 - 120	11/09/12 10:53	11/16/12 01:33	1
Dibromofluoromethane	89		73 - 122	11/09/12 10:53	11/16/12 01:33	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/09/12 10:53	11/16/12 01:33	1
Toluene-d8 (Surr)	107		72 - 122	11/09/12 10:53	11/16/12 01:33	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<3.6		3.6	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Bis(2-chloroethyl)ether	<3.6		3.6	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
1,3-Dichlorobenzene	<3.6		3.6	0.75	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
1,4-Dichlorobenzene	<3.6		3.6	0.75	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
1,2-Dichlorobenzene	<3.6		3.6	0.78	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1-DUP**

**Lab Sample ID: 500-52233-18**

**Date Collected: 11/09/12 10:53**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 92.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<3.6		3.6	0.95	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,2'-oxybis[1-chloropropane]	<3.6		3.6	0.79	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
N-Nitrosodi-n-propylamine	<3.6		3.6	0.91	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Hexachloroethane	<3.6		3.6	0.76	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2-Chlorophenol	<3.6		3.6	1.0	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Nitrobenzene	<0.71		0.71	0.22	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Bis(2-chloroethoxy)methane	<3.6		3.6	0.79	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
1,2,4-Trichlorobenzene	<3.6		3.6	0.81	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Isophorone	<3.6		3.6	0.80	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,4-Dimethylphenol	<7.1		7.1	2.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Hexachlorobutadiene	<3.6		3.6	0.94	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Naphthalene	<0.71		0.71	0.14	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,4-Dichlorophenol	<7.1		7.1	2.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
4-Chloroaniline	<14		14	2.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,4,6-Trichlorophenol	<7.1		7.1	0.90	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,4,5-Trichlorophenol	<7.1		7.1	2.0	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Hexachlorocyclopentadiene	<14		14	3.3	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2-Methylnaphthalene	<3.6		3.6	0.93	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2-Nitroaniline	<3.6		3.6	1.3	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2-Chloronaphthalene	<3.6		3.6	0.80	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
4-Chloro-3-methylphenol	<7.1		7.1	3.4	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,6-Dinitrotoluene	<3.6		3.6	0.85	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2-Nitrophenol	<7.1		7.1	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
3-Nitroaniline	<7.1		7.1	1.4	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Dimethyl phthalate	<3.6		3.6	0.89	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,4-Dinitrophenol	<14		14	3.7	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Acenaphthylene	<0.71		0.71	0.16	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
2,4-Dinitrotoluene	<3.6		3.6	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Acenaphthene	<0.71		0.71	0.21	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Dibenzofuran	<3.6		3.6	0.86	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
4-Nitrophenol	<14		14	3.8	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Fluorene	<0.71		0.71	0.16	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
4-Nitroaniline	<7.1		7.1	1.5	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
4-Bromophenyl phenyl ether	<3.6		3.6	0.80	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Hexachlorobenzene	<1.4		1.4	0.14	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Diethyl phthalate	<3.6		3.6	1.2	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
4-Chlorophenyl phenyl ether	<3.6		3.6	1.1	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Pentachlorophenol	<14		14	3.6	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
N-Nitrosodiphenylamine	<3.6		3.6	0.97	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
4,6-Dinitro-2-methylphenol	<7.1		7.1	1.7	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Phenanthrene	<0.71		0.71	0.30	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Anthracene	<0.71		0.71	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Carbazole	<3.6		3.6	1.0	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Di-n-butyl phthalate	<3.6		3.6	0.90	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
<b>Fluoranthene</b>	<b>0.34</b>	<b>J</b>	0.71	0.29	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
<b>Pyrene</b>	<b>0.29</b>	<b>J</b>	0.71	0.26	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Butyl benzyl phthalate	<3.6		3.6	0.89	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
<b>Benzo[a]anthracene</b>	<b>0.17</b>	<b>J</b>	0.71	0.15	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
<b>Chrysene</b>	<b>0.18</b>	<b>J</b>	0.71	0.16	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1-DUP**

**Lab Sample ID: 500-52233-18**

Date Collected: 11/09/12 10:53

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 92.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<3.6		3.6	0.60	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Bis(2-ethylhexyl) phthalate	<3.6		3.6	0.95	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Di-n-octyl phthalate	<3.6		3.6	1.4	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
<b>Benzo[b]fluoranthene</b>	<b>0.22</b>	<b>J</b>	0.71	0.14	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Benzo[k]fluoranthene	<0.71		0.71	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
<b>Benzo[a]pyrene</b>	<b>0.20</b>	<b>J</b>	0.71	0.13	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Indeno[1,2,3-cd]pyrene	<0.71		0.71	0.24	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Dibenz(a,h)anthracene	<0.71		0.71	0.20	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Benzo[g,h,i]perylene	<0.71		0.71	0.24	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
3 & 4 Methylphenol	<3.6		3.6	1.4	mg/Kg	☼	11/20/12 07:10	12/04/12 17:22	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		30 - 110				11/20/12 07:10	12/04/12 17:22	20
Phenol-d5	92		31 - 110				11/20/12 07:10	12/04/12 17:22	20
Nitrobenzene-d5	82		30 - 115				11/20/12 07:10	12/04/12 17:22	20
2-Fluorobiphenyl	100		30 - 119				11/20/12 07:10	12/04/12 17:22	20
2,4,6-Tribromophenol	96		35 - 137				11/20/12 07:10	12/04/12 17:22	20
Terphenyl-d14	113		36 - 134				11/20/12 07:10	12/04/12 17:22	20

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Arsenic</b>	<b>2.4</b>		0.51	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Barium</b>	<b>15</b>	<b>B</b>	0.51	0.060	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Beryllium</b>	<b>0.35</b>		0.20	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Boron</b>	<b>3.9</b>		2.5	0.47	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Cadmium</b>	<b>0.25</b>		0.10	0.025	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Calcium</b>	<b>29000</b>	<b>B</b>	10	1.8	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Chromium</b>	<b>8.0</b>		0.51	0.085	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Cobalt</b>	<b>2.1</b>		0.25	0.027	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Copper</b>	<b>8.6</b>		0.51	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Iron</b>	<b>6000</b>		10	4.4	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Lead</b>	<b>27</b>		0.25	0.087	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Magnesium</b>	<b>18000</b>	<b>B</b>	5.1	0.98	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Manganese</b>	<b>120</b>		0.51	0.072	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Nickel</b>	<b>5.9</b>		0.51	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Potassium</b>	<b>640</b>	<b>B</b>	25	2.9	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
Silver	<0.25		0.25	0.030	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Sodium</b>	<b>120</b>	<b>B</b>	51	9.3	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Vanadium</b>	<b>12</b>		0.25	0.038	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1
<b>Zinc</b>	<b>30</b>	<b>B</b>	1.0	0.35	mg/Kg	☼	11/12/12 16:30	11/19/12 13:52	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.21</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 05:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 05:40	1
<b>Boron</b>	<b>1.6</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 05:40	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 05:40	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-24-B01-1-DUP**

**Lab Sample ID: 500-52233-18**

Date Collected: 11/09/12 10:53

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:40	1
<b>Cobalt</b>	<b>0.0051</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:40	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:40	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 05:40	1
<b>Lead</b>	<b>0.027</b>		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 05:40	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:40	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 05:40	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 05:40	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 05:40	1
<b>Zinc</b>	<b>0.13</b>		0.10	0.020	mg/L		11/19/12 08:00	11/20/12 05:40	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		11/19/12 08:00	11/26/12 14:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:57	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000071</b>	<b>J ^</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:38	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.011</b>	<b>J</b>	0.017	0.0065	mg/Kg	☼	11/20/12 19:00	11/21/12 11:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.01</b>		0.200	0.200	SU			11/15/12 08:46	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

## 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
E	Result exceeded calibration range.
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
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	MS or MSD 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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>SL-30</u> Project No.: <u>IDOT2011-053</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: <u>CRM</u>	COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-52233</u> Sample Memo: <u>(3.0) (3.9)</u>
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**Special Instructions:**  
See Table 2 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 <i>inorg</i>	TCLP/SPLP Metals <i>inorg</i>	pH	% Solids	Waste Characterization	Comments
1	2034A-27-801	11/9/12	9:02	S	X						X	X	X			0-3'
2	2034A-27-802		7:57													0-3'
3	2034A-25-803-1		8:16													0-4'
4	2034A-25-803-2		8:27													4-8'
5	2034A-25-802-1		4:55													0-4'
6	2034A-25-802-2		9:00													4-8'
7	2034A-25-801-1		9:19													0-4'
8	2034A-25-801-2		9:30													4-8'
9	2034A-25-801-1-DUP		9:34													0-4'
10	2034A-24-804-1		10:11													0-4'
11	2034A-24-804-2		10:16													4-8'
12	2034A-24-805-1		10:48													0-4'

Relinquished by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1330</u>	Received by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1330</u>
Relinquished by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1500</u>	Received by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1500</u>
Relinquished by:	Date/Time:	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: IL 30  
 Project No.: IDOT2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other

COC No.: 2 of 2  
 Lab Job No: 500-S2233  
 Sample Temp: \_\_\_\_\_

Sampler: CRM

**Special Instructions:**  
 See Table 2 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 / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments		
13	2031A-24-B03-2	11/9/12	10:33	S	X						X	X	X	X		4-8'		
14	2031A-24-B02-1		11:12													0-4'		
15	2031A-24-B02-2		11:17													4-8'		
16	2031A-24-B01-1		10:43													0-4'		
17	2031A-24-B01-2		10:49													4-8'		
18	2031A-24-B01-1-DUP		10:53													0-4'		
19	2031A-24-B14-1		11:50													0-4'		
20	2031A-24-B14-2		11:55													4-8'		
21	2031A-25-G01		12:20	W	X						X	X				0-4'		
22	2031A-25-G01 <del>21-G01</del> Trip Blank		1:15													4-8'		
Relinquished by: <u>[Signature]</u>					Date/Time	11/9/12	1330	Received by: <u>[Signature]</u>								Date/Time	11/9/12	1330
Relinquished by: <u>[Signature]</u>					Date/Time	11/9/12	1500	Received by: <u>[Signature]</u>								Date/Time	11/9/12	1500
Relinquished by: _____					Date/Time			Received by: _____								Date/Time		

December 16, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120044

Dear Colleen Grey:

TEKLAB, INC received 34 samples on 12/2/2013 12:20:00 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)



## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120044

**Client Project:** IDOT2011-053

**Report Date:** 16-Dec-13

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**This reporting package includes the following:**

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Case Narrative	4
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Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120044

**Client Project:** IDOT2011-053

**Report Date:** 16-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            |





## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120044

**Client Project:** IDOT2011-053

**Report Date:** 16-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-001

Client Sample ID: 2034A-24-B01-1

Matrix: SOLID

Collection Date: 11/26/2013 15:35

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>0.0623</b>	mg/L	1	12/12/2013 11:47	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-002

Client Sample ID: 2034A-24-B01-1 DUP

Matrix: SOLID

Collection Date: 11/26/2013 15:35

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>0.0355</b>	mg/L	1	12/12/2013 11:58	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-003

Client Sample ID: 2034A-24-B01-2

Matrix: SOLID

Collection Date: 11/26/2013 15:40

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>0.0064</b>	mg/L	1	12/12/2013 12:01	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-004

Client Sample ID: 2034A-24-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 16:05

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	0.0016	0.005		<b>0.0346</b>	mg/L	1	12/12/2013 12:13	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-005

Client Sample ID: 2034A-24-B02-2

Matrix: SOLID

Collection Date: 11/26/2013 16:10

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>0.0063</b>	mg/L	1	12/12/2013 12:24	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-006

Client Sample ID: 2034A-24-B03-1

Matrix: SOLID

Collection Date: 11/26/2013 15:25

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	0.0016	0.005		<b>0.0931</b>	mg/L	1	12/12/2013 12:27	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-007

Client Sample ID: 2034A-24-B03-2

Matrix: SOLID

Collection Date: 11/26/2013 15:30

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>0.0245</b>	mg/L	1	12/12/2013 12:31	94514





## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-008

Client Sample ID: 2034A-24-B05-1

Matrix: SOLID

Collection Date: 11/26/2013 8:50

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		<b>0.0285</b>	mg/L	1	12/12/2013 12:35	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-009

Client Sample ID: 2034A-24-B05-2

Matrix: SOLID

Collection Date: 11/26/2013 8:55

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>0.0593</b>	mg/L	1	12/12/2013 12:38	94514



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-015

Client Sample ID: 2034A-24-B09-1

Matrix: SOLID

Collection Date: 11/26/2013 9:45

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>0.0255</b>	mg/L	1	12/12/2013 13:08	94514



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-016

Client Sample ID: 2034A-24-B09-2

Matrix: SOLID

Collection Date: 11/26/2013 9:50

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		<b>0.045</b>	mg/L	1	12/12/2013 13:11	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-017

Client Sample ID: 2034A-24-B10-1

Matrix: SOLID

Collection Date: 11/26/2013 10:30

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		0.118	mg/L	1	12/12/2013 13:15	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-018

Client Sample ID: 2034A-24-B10-2

Matrix: SOLID

Collection Date: 11/26/2013 10:35

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>0.118</b>	mg/L	1	12/12/2013 13:19	94514



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-019

Client Sample ID: 2034A-24-B11-1

Matrix: SOLID

Collection Date: 11/26/2013 8:35

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>0.027</b>	mg/L	1	12/12/2013 13:22	94514



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-020

Client Sample ID: 2034A-24-B11-2

Matrix: SOLID

Collection Date: 11/26/2013 8:40

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>0.0372</b>	mg/L	1	12/12/2013 13:26	94514





## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-021

Client Sample ID: 2034A-24-B15-1

Matrix: SOLID

Collection Date: 11/26/2013 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	0.0016	0.005		0.047	mg/L	1	12/12/2013 11:53	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-022

Client Sample ID: 2034A-24-B15-2

Matrix: SOLID

Collection Date: 11/26/2013 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	0.0016	0.005		<b>0.0317</b>	mg/L	1	12/12/2013 11:59	94515



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-023

Client Sample ID: 2034A-24-B16-1

Matrix: SOLID

Collection Date: 11/26/2013 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	0.0016	0.005		<b>0.0498</b>	mg/L	1	12/12/2013 12:05	94515



# Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-024

Client Sample ID: 2034A-24-B16-2

Matrix: SOLID

Collection Date: 11/26/2013 11:45

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>0.0728</b>	mg/L	1	12/12/2013 12:11	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-025

Client Sample ID: 2034A-24-B19-1

Matrix: SOLID

Collection Date: 11/26/2013 9:55

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>0.0405</b>	mg/L	1	12/12/2013 12:18	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-026

Client Sample ID: 2034A-24-B19-2

Matrix: SOLID

Collection Date: 11/26/2013 10:00

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	0.0016	0.005		<b>0.0265</b>	mg/L	1	12/12/2013 12:24	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-027

Client Sample ID: 2034A-24-B20-1

Matrix: SOLID

Collection Date: 11/26/2013 10:15

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		0.116	mg/L	1	12/12/2013 12:30	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-028

Client Sample ID: 2034A-24-B20-2

Matrix: SOLID

Collection Date: 11/26/2013 10:20

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		<b>0.103</b>	mg/L	1	12/12/2013 12:36	94515





## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-029

Client Sample ID: 2034A-24-B22-1

Matrix: SOLID

Collection Date: 11/26/2013 11:15

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>0.0514</b>	mg/L	1	12/12/2013 12:55	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-030

Client Sample ID: 2034A-24-B22-2

Matrix: SOLID

Collection Date: 11/26/2013 11:20

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		<b>0.0399</b>	mg/L	1	12/12/2013 13:01	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-031

Client Sample ID: 2034A-24-B23-1

Matrix: SOLID

Collection Date: 11/26/2013 11:30

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>0.0624</b>	mg/L	1	12/12/2013 13:07	94515



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120044

Client Project: IDOT2011-053

Report Date: 16-Dec-13

Lab ID: 13120044-032

Client Sample ID: 2034A-24-B23-2

Matrix: SOLID

Collection Date: 11/26/2013 11:35

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>0.0828</b>	mg/L	1	12/12/2013 13:13	94515



# 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: <u>Fest America - Chicago</u> Address: <u>2417 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-534-5200</u> Contact: <u>Dick Wright</u> email: <u>richardwright@restamericainc.com</u>	<b>Project Name:</b> <u>IL 30 Cook Co</u> <b>Project No.:</b> <u>ID07 2011-053</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>CM / CBG</u>	<b>COC No.:</b> <u>1</u> of <u>3</u> <b>Lab Job No.:</b> <u>13120044</u> <b>Sample Temp:</b> <u>5.0</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. <u>L03NA-24-B14 added for sampling</u>		<b>ANALYSES</b>															
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	
<u>13120044-001</u>	<u>2034A-24-B01-1</u>	<u>11/26/13</u>	<u>3:35</u>	<u>S</u>											<u>X SPLP Mn/** TCLP Mn</u>		
<u>002</u>	<u>2034A-24-B01-1 DUP</u>		<u>3:35</u>														
<u>003</u>	<u>2034A-24-B01-2</u>		<u>3:40</u>														
<u>004</u>	<u>2034A-24-B02-1</u>		<u>4:05</u>														
<u>005</u>	<u>2034A-24-B02-2</u>		<u>4:10</u>														
<u>006</u>	<u>2034A-24-B03-1</u>		<u>3:25</u>														
<u>007</u>	<u>2034A-24-B03-2</u>		<u>3:30</u>														
<u>008</u>	<u>2034A-24-B05-1</u>	<u>11/26/13</u>	<u>0850</u>														
<u>009</u>	<u>2034A-24-B05-2</u>	<u>11/26/13</u>	<u>0855</u>														
<u>010</u>	<u>2034A-24-B07-1</u>	<u>11/26/13</u>	<u>0905</u>														
<u>011</u>	<u>2034A-24-B07-1 DUA</u>	<u>11/26/13</u>	<u>0910</u>														
<u>012</u>	<u>2034A-24-B07-2</u>	<u>11/26/13</u>	<u>0915</u>	<u>S</u>											<u>X</u>		
Relinquished by: <u>A. J. [Signature]</u>					Date/Time	Received by: <u>[Signature]</u>											
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</u>											
Relinquished by: <u>[Signature]</u>					Date/Time	Received by: <u>[Signature]</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: <del>Foot America - Chicago</del> <b>Teklab</b> Address: <del>247 Bond Street</del> <b>University Park, IL 60484</b> Phone: <del>708-594-5200</del> <b>Dick Wright</b> Contact: <del>richard.wright@testamerica.com</del> email: <del>richard.wright@testamerica.com</del>	<b>Project Name:</b> <u>IL 30 Cook Co</u> <b>Project No.:</b> <u>IDOT 2011-053</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>CBG/cm</u>	<b>COC No.:</b> <u>2</u> of <u>3</u> <b>Lab Job No.:</b> <u>13120044</u> <b>Sample Temp.:</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.

**24 B14 added for sampling**

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
13120044	2034A-24-B08-1	11/26/13	0925	S											X SPLP Mn/TCLP Mn	
214	2034A-24-B08-2	11/26/13	0930													
215	2034A-24-B09-1	11/26/13	0945													
216	2034A-24-B09-2	11/26/13	0950													
217	2034A-24-B10-1	11/26/13	1030													
218	2034A-24-B10-2	11/26/13	1035													
219	2034A-24-B11-1	11/26/13	0835													
220	2034A-24-B11-2	11/26/13	0840													
221	2034A-24-B15-1		1205													
222	2034A-24-B15-2		1210													
223	2034A-24-B16-1		1140													
224	2034A-24-B16-2		1145	S											X	

**Matrix Key:**  
W: Water  
S: Soil  
SL: Sludge  
S: Sediment  
L: Leachate  
DW: Drinking Water  
OL: Oil  
O: Other

**Received by:** [Signature] **Date/Time:** 12/2/13 9:25

**Relinquished by:** [Signature] **Date/Time:** 11/13/13 12:00

**Relinquished by:** [Signature] **Date/Time:** 11/13/13 12:00

**Relinquished by:** [Signature] **Date/Time:** 11/13/13 12:00



# 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: <u>Test America - Chicago</u> <u>Teklab</u> Address: <u>2447 Bond Street</u> <u>University Park, IL 60484</u> Phone: <u>708-534-5200</u> Contact: <u>Dick Wright</u> email: <u>richard.wright@testamericainc.com</u>	Project Name: <u>IL 30 Cook Co</u> Project No.: <u>ID07 2011-053</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>CBG/cm</u>	COC No.: <u>3</u> of <u>3</u> Lab Job No.: <u>13120044</u> Sample Temp: _____
---	---	---	---

**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.  
203-1A-24-B14 added for sampling

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	SPLP Mn/** TCLP Mn	Comments
<del>13120044</del>	<del>2034A-24-B19-1</del>	<del>11/26/13</del>	<del>0955</del>	<del>S</del>													
<del>2034A-24-B19-2</del>	<del>2034A-24-B19-2</del>	<del>11/26/13</del>	<del>1000</del>	<del>S</del>													
<del>2034A-24-B20-1</del>	<del>2034A-24-B20-1</del>	<del>11/26/13</del>	<del>1015</del>	<del>S</del>													
<del>2034A-24-B20-2</del>	<del>2034A-24-B20-2</del>	<del>11/26/13</del>	<del>1020</del>	<del>S</del>													
<del>2034A-24-B22-1</del>	<del>2034A-24-B22-1</del>		<del>1115</del>	<del>S</del>													
<del>2034A-24-B22-2</del>	<del>2034A-24-B22-2</del>		<del>1120</del>	<del>S</del>													
<del>2034A-24-B23-1</del>	<del>2034A-24-B23-1</del>		<del>1130</del>	<del>S</del>													
<del>2034A-24-B23-2</del>	<del>2034A-24-B23-2</del>		<del>1135</del>	<del>S</del>													
<del>2034A-24-B14-1</del>	<del>2034A-24-B14-1</del>		<del>350</del>	<del>S</del>													
<del>2034A-24-B14-2</del>	<del>2034A-24-B14-2</del>		<del>355</del>	<del>S</del>													

**Matrix Key:**  
W: Water  
S: Soil  
SL: Sludge  
S: Sediment  
L: Leachate  
DW: Drinking Water  
OL: Oil  
O: Other

**ANALYSES**

Received by: [Signature] Date/Time: 12/2/13 925  
Relinquished by: [Signature] Date/Time: 12/2/13 1220  
Relinquished by: [Signature] Date/Time: 12/13/13 1200



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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

3500 East Block of Sauk Trail Road

City: Lynwood State: IL Zip Code: 60411

County: Cook Township: Bloom

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.49479 Longitude: -87.52642  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)Latitude: 41.49479 Longitude: -87.52642Uncontaminated 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 2034/A-25-B01 THROUGH -B04 WERE SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-25. SEE FIGURE 4 AND TABLE 5u 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: 500-52233 AND 500-52178. TEKLAB WORK ORDER NO. 13120045.

**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: 3/17/14

**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 2034A-25  
Plum Creek Forest Preserve

Sample ID	2034A-25-B01-1	2034A-25-B01-1 DUP	2034A-25-B01-2	2034A-25-B02-1	2034A-25-B02-2	<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			
Sample Depth (ft)	0-4	0-4	4-8	0-4	4-8									
Sample Date	11/9/2012	11/9/2012	11/9/2012	11/9/2012	11/9/2012									
PID	0	0	0	0	0									
Sample pH	7.64	7.27	8.04	8.05	7.58									
Matrix	Soil	Soil	Soil	Soil	Soil									
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>														
Benzo (a) pyrene	0.18	1,2	0.074	J 0.0097	ND	ND	0.09	0.09	0.98	1.3	2.1	NA		
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>														
Arsenic	12	1,3	13	1,3	13	1,3	5.4	4	11.3	NA	11.3	NA	13	NA

Sample ID	2034A-25-B03-1	2034A-25-B03-2	2034A-25-B04-1	2034A-25-B04-2	<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	
Sample Depth (ft)	0-4	4-8	0-4	4-8							
Sample Date	11/9/2012	11/9/2012	11/8/2012	11/8/2012							
PID	0	0	0	0							
Sample pH	8.74	8.89	8.07	8.19							
Matrix	Soil	Soil	Soil	Soil							
<b>Semivolatile Organic Compounds (soil: mg/kg; water: mg/L)</b>											
Benzo (a) pyrene	J 0.028	0.043	0.31	1,2	ND	0.09	0.09	0.98	1.3	2.1	NA
<b>Inorganic Compounds, Total (soil: mg/kg; water: mg/L)</b>											
Arsenic	5.7	12	1,3	7.5	6.4	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: 500-52233-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
12/5/2012 2:12:06 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
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- 14
- 15

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-1**

**Lab Sample ID: 500-52233-3**

Date Collected: 11/09/12 08:16

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0080		0.0064	0.0028	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Benzene	<0.0064		0.0064	0.00088	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Bromodichloromethane	<0.0064		0.0064	0.0011	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Bromoform	<0.0064		0.0064	0.0015	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Bromomethane	<0.0064		0.0064	0.0019	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
2-Butanone (MEK)	<0.0064		0.0064	0.0023	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Carbon disulfide	<0.0064		0.0064	0.00096	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Carbon tetrachloride	<0.0064		0.0064	0.0012	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Chlorobenzene	<0.0064		0.0064	0.00065	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Chloroethane	<0.0064	*	0.0064	0.0017	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Chloroform	<0.0064		0.0064	0.00074	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Chloromethane	<0.0064		0.0064	0.0013	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
cis-1,2-Dichloroethene	<0.0064		0.0064	0.00091	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
cis-1,3-Dichloropropene	<0.0064		0.0064	0.00084	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Dibromochloromethane	<0.0064		0.0064	0.0011	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,1-Dichloroethane	<0.0064		0.0064	0.0010	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,2-Dichloroethane	<0.0064		0.0064	0.00095	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,1-Dichloroethene	<0.0064		0.0064	0.0010	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,2-Dichloropropane	<0.0064		0.0064	0.00097	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,3-Dichloropropene, Total	<0.0064		0.0064	0.00084	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Ethylbenzene	<0.0064		0.0064	0.0013	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
2-Hexanone	<0.0064		0.0064	0.0018	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Methylene Chloride	<0.0064		0.0064	0.0017	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0017	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Methyl tert-butyl ether	<0.0064		0.0064	0.0011	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Styrene	<0.0064		0.0064	0.00084	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,1,1,2-Tetrachloroethane	<0.0064		0.0064	0.0013	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Tetrachloroethene	<0.0064		0.0064	0.00098	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Toluene	<0.0064		0.0064	0.00090	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
trans-1,2-Dichloroethene	<0.0064		0.0064	0.00088	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
trans-1,3-Dichloropropene	<0.0064		0.0064	0.0011	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,1,1-Trichloroethane	<0.0064		0.0064	0.00096	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
1,1,2-Trichloroethane	<0.0064		0.0064	0.00087	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Trichloroethene	<0.0064		0.0064	0.0011	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Vinyl chloride	<0.0064		0.0064	0.0013	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1
Xylenes, Total	<0.013		0.013	0.00058	mg/Kg	☼	11/09/12 08:16	11/15/12 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/09/12 08:16	11/15/12 15:58	1
Dibromofluoromethane	88		73 - 122	11/09/12 08:16	11/15/12 15:58	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/09/12 08:16	11/15/12 15:58	1
Toluene-d8 (Surr)	107		72 - 122	11/09/12 08:16	11/15/12 15:58	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-1**

**Lab Sample ID: 500-52233-3**

Date Collected: 11/09/12 08:16

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Naphthalene	<0.035		0.035	0.0067	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
4-Chloroaniline	<0.70		0.70	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Hexachlorocyclopentadiene	<0.70		0.70	0.16	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2-Methylnaphthalene	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,6-Dinitrotoluene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
3-Nitroaniline	<0.35		0.35	0.067	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,4-Dinitrophenol	<0.70		0.70	0.18	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Acenaphthylene	<0.035		0.035	0.0080	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
2,4-Dinitrotoluene	<0.18		0.18	0.053	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Acenaphthene	<0.035		0.035	0.010	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
4-Nitrophenol	<0.70		0.70	0.19	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Fluorene	<0.035		0.035	0.0079	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Hexachlorobenzene	<0.070		0.070	0.0069	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Diethyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Pentachlorophenol	<0.70		0.70	0.18	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
N-Nitrosodiphenylamine	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Phenanthrene</b>	<b>0.015</b>	<b>J</b>	0.035	0.015	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Anthracene	<0.035		0.035	0.0082	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Fluoranthene</b>	<b>0.044</b>		0.035	0.014	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Pyrene</b>	<b>0.034</b>	<b>J</b>	0.035	0.013	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Benzo[a]anthracene</b>	<b>0.019</b>	<b>J</b>	0.035	0.0073	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Chrysene</b>	<b>0.024</b>	<b>J</b>	0.035	0.0079	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-1**

**Lab Sample ID: 500-52233-3**

Date Collected: 11/09/12 08:16

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 90.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Benzo[b]fluoranthene</b>	<b>0.035</b>		0.035	0.0068	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Benzo[k]fluoranthene</b>	<b>0.017 J</b>		0.035	0.0083	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Benzo[a]pyrene</b>	<b>0.028 J</b>		0.035	0.0064	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.022 J</b>		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Dibenz(a,h)anthracene</b>	<b>0.012 J</b>		0.035	0.0097	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Benzo[g,h,i]perylene</b>	<b>0.031 J</b>		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
3 & 4 Methylphenol	<0.18		0.18	0.066	mg/Kg	☼	11/20/12 07:10	12/04/12 12:13	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	64		30 - 110				11/20/12 07:10	12/04/12 12:13	1
Phenol-d5	73		31 - 110				11/20/12 07:10	12/04/12 12:13	1
Nitrobenzene-d5	62		30 - 115				11/20/12 07:10	12/04/12 12:13	1
2-Fluorobiphenyl	69		30 - 119				11/20/12 07:10	12/04/12 12:13	1
2,4,6-Tribromophenol	76		35 - 137				11/20/12 07:10	12/04/12 12:13	1
Terphenyl-d14	75		36 - 134				11/20/12 07:10	12/04/12 12:13	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Arsenic</b>	<b>5.7</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Barium</b>	<b>20 B</b>		0.52	0.061	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Beryllium</b>	<b>0.33</b>		0.21	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Boron</b>	<b>4.0</b>		2.6	0.48	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Cadmium</b>	<b>0.44</b>		0.10	0.026	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Calcium</b>	<b>64000 B</b>		100	18	mg/Kg	☼	11/12/12 16:30	11/19/12 15:03	10
<b>Chromium</b>	<b>7.0</b>		0.52	0.086	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Cobalt</b>	<b>4.0</b>		0.26	0.027	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Copper</b>	<b>9.7</b>		0.52	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Iron</b>	<b>11000</b>		10	4.5	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Lead</b>	<b>20</b>		0.26	0.089	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Magnesium</b>	<b>37000 B</b>		5.2	1.0	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Manganese</b>	<b>200</b>		0.52	0.073	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Nickel</b>	<b>8.2</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Potassium</b>	<b>710 B</b>		26	2.9	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
Selenium	<0.52		0.52	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Sodium</b>	<b>420 B</b>		52	9.4	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Vanadium</b>	<b>11</b>		0.26	0.039	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1
<b>Zinc</b>	<b>25 B</b>		1.0	0.35	mg/Kg	☼	11/12/12 16:30	11/19/12 12:03	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.19 J</b>		0.50	0.010	mg/L		11/19/12 08:00	11/20/12 03:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 03:19	1
<b>Boron</b>	<b>2.0</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 03:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 03:19	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-1**

**Lab Sample ID: 500-52233-3**

Date Collected: 11/09/12 08:16

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:19	1
<b>Cobalt</b>	<b>0.011</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:19	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:19	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 03:19	1
<b>Lead</b>	<b>0.0055</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 03:19	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:19	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:19	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 03:19	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:19	1
<b>Zinc</b>	<b>0.085</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 03:19	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		11/19/12 08:00	11/26/12 14:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:39	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000085</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:03	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0066	mg/Kg	☆	11/20/12 19:00	11/21/12 10:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.74</b>		0.200	0.200	SU			11/15/12 08:07	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-2**

**Lab Sample ID: 500-52233-4**

Date Collected: 11/09/12 08:23

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 82.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Benzene	<0.0042		0.0042	0.00057	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Bromoform	<0.0042		0.0042	0.00096	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Carbon disulfide	<0.0042		0.0042	0.00062	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Carbon tetrachloride	<0.0042		0.0042	0.00076	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Chlorobenzene	<0.0042		0.0042	0.00042	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Chloroethane	<0.0042	*	0.0042	0.0011	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Chloromethane	<0.0042		0.0042	0.00088	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,1-Dichloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,2-Dichloropropane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Ethylbenzene	<0.0042		0.0042	0.00084	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00069	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00084	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00075	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00057	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Trichloroethene	<0.0042		0.0042	0.00069	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Vinyl chloride	<0.0042		0.0042	0.00088	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	11/09/12 08:23	11/15/12 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		76 - 120	11/09/12 08:23	11/15/12 16:22	1
Dibromofluoromethane	86		73 - 122	11/09/12 08:23	11/15/12 16:22	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/09/12 08:23	11/15/12 16:22	1
Toluene-d8 (Surr)	107		72 - 122	11/09/12 08:23	11/15/12 16:22	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.060	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-2**

**Lab Sample ID: 500-52233-4**

**Date Collected: 11/09/12 08:23**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 82.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
4-Chloroaniline	<0.77		0.77	0.12	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Hexachlorocyclopentadiene	<0.77		0.77	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,4-Dinitrophenol	<0.77		0.77	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Acenaphthylene	<0.038		0.038	0.0088	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Acenaphthene	<0.038		0.038	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
4-Nitrophenol	<0.77		0.77	0.21	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Fluorene	<0.038		0.038	0.0087	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
4-Nitroaniline	<0.38		0.38	0.078	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Hexachlorobenzene	<0.077		0.077	0.0075	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.060	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Pentachlorophenol	<0.77		0.77	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.093	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Phenanthrene</b>	<b>0.050</b>		0.038	0.016	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Anthracene	<0.038		0.038	0.0090	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Di-n-butyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Fluoranthene</b>	<b>0.10</b>		0.038	0.016	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Pyrene</b>	<b>0.082</b>		0.038	0.014	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Benzo[a]anthracene</b>	<b>0.036 J</b>		0.038	0.0080	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Chrysene</b>	<b>0.038</b>		0.038	0.0086	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-2**

**Lab Sample ID: 500-52233-4**

Date Collected: 11/09/12 08:23

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 82.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Di-n-octyl phthalate	<0.19		0.19	0.077	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Benzo[b]fluoranthene</b>	<b>0.064</b>		0.038	0.0074	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Benzo[k]fluoranthene</b>	<b>0.019</b>	<b>J</b>	0.038	0.0091	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Benzo[a]pyrene</b>	<b>0.043</b>		0.038	0.0070	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.032</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
<b>Benzo[g,h,i]perylene</b>	<b>0.037</b>	<b>J</b>	0.038	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
3 & 4 Methylphenol	<0.19		0.19	0.072	mg/Kg	☼	11/20/12 07:10	12/03/12 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110				11/20/12 07:10	12/03/12 14:22	1
Phenol-d5	70		31 - 110				11/20/12 07:10	12/03/12 14:22	1
Nitrobenzene-d5	72		30 - 115				11/20/12 07:10	12/03/12 14:22	1
2-Fluorobiphenyl	85		30 - 119				11/20/12 07:10	12/03/12 14:22	1
2,4,6-Tribromophenol	83		35 - 137				11/20/12 07:10	12/03/12 14:22	1
Terphenyl-d14	78		36 - 134				11/20/12 07:10	12/03/12 14:22	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Arsenic</b>	<b>12</b>		0.57	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Barium</b>	<b>36</b>	<b>B</b>	0.57	0.068	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Beryllium</b>	<b>0.42</b>		0.23	0.017	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Boron</b>	<b>2.5</b>	<b>J</b>	2.9	0.53	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Cadmium</b>	<b>0.39</b>		0.11	0.028	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Calcium</b>	<b>1900</b>	<b>B</b>	11	2.0	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Chromium</b>	<b>12</b>		0.57	0.095	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Cobalt</b>	<b>6.9</b>		0.29	0.030	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Copper</b>	<b>35</b>		0.57	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Iron</b>	<b>25000</b>		11	4.9	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Lead</b>	<b>20</b>		0.29	0.098	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Magnesium</b>	<b>2500</b>	<b>B</b>	5.7	1.1	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Manganese</b>	<b>370</b>		0.57	0.080	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Nickel</b>	<b>23</b>		0.57	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Potassium</b>	<b>1000</b>	<b>B</b>	29	3.2	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
Selenium	<0.57		0.57	0.16	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
Silver	<0.29		0.29	0.034	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Sodium</b>	<b>1200</b>	<b>B</b>	57	10	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.57	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Vanadium</b>	<b>15</b>		0.29	0.043	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1
<b>Zinc</b>	<b>46</b>	<b>B</b>	1.1	0.39	mg/Kg	☼	11/12/12 16:30	11/19/12 12:09	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 03:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 03:25	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 03:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 03:25	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B03-2**

**Lab Sample ID: 500-52233-4**

Date Collected: 11/09/12 08:23

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:25	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:25	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:25	1
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 03:25	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 03:25	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:25	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:25	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 03:25	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:25	1
<b>Zinc</b>	<b>0.025 J</b>		0.10	0.020	mg/L		11/19/12 08:00	11/20/12 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		11/19/12 08:00	11/26/12 14:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:40	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000075 J</b>		0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:04	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.019	0.0071	mg/Kg	☼	11/20/12 19:00	11/21/12 10:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.89</b>		0.200	0.200	SU			11/15/12 08:10	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-1**

**Lab Sample ID: 500-52233-5**

Date Collected: 11/09/12 08:55

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 91.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0087		0.0048	0.0021	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Benzene	<0.0048		0.0048	0.00066	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Bromodichloromethane	<0.0048		0.0048	0.00083	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Bromoform	<0.0048		0.0048	0.0011	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Bromomethane	<0.0048		0.0048	0.0015	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
2-Butanone (MEK)	<0.0048		0.0048	0.0018	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Carbon disulfide	<0.0048		0.0048	0.00072	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Carbon tetrachloride	<0.0048		0.0048	0.00088	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Chlorobenzene	<0.0048		0.0048	0.00049	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Chloroethane	<0.0048	*	0.0048	0.0013	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Chloroform	<0.0048		0.0048	0.00056	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Chloromethane	<0.0048		0.0048	0.0010	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Dibromochloromethane	<0.0048		0.0048	0.00084	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,1-Dichloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,1-Dichloroethene	<0.0048		0.0048	0.00078	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,2-Dichloropropane	<0.0048		0.0048	0.00073	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.00063	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Ethylbenzene	<0.0048		0.0048	0.00098	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
2-Hexanone	<0.0048		0.0048	0.0014	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Methylene Chloride	<0.0048		0.0048	0.0013	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0013	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Methyl tert-butyl ether	<0.0048		0.0048	0.00080	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Styrene	<0.0048		0.0048	0.00063	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Tetrachloroethene	<0.0048		0.0048	0.00074	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Toluene	<0.0048		0.0048	0.00068	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.00067	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.00087	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00066	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Trichloroethene	<0.0048		0.0048	0.00080	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Vinyl chloride	<0.0048		0.0048	0.0010	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1
Xylenes, Total	<0.0097		0.0097	0.00044	mg/Kg	☼	11/09/12 08:55	11/15/12 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		76 - 120	11/09/12 08:55	11/15/12 16:45	1
Dibromofluoromethane	85		73 - 122	11/09/12 08:55	11/15/12 16:45	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/09/12 08:55	11/15/12 16:45	1
Toluene-d8 (Surr)	105		72 - 122	11/09/12 08:55	11/15/12 16:45	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.056	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
1,3-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
1,4-Dichlorobenzene	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
1,2-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-1**

**Lab Sample ID: 500-52233-5**

Date Collected: 11/09/12 08:55

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 91.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Hexachloroethane	<0.18		0.18	0.037	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2-Chlorophenol	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,4-Dimethylphenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Hexachlorobutadiene	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Naphthalene	<0.035		0.035	0.0068	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,4-Dichlorophenol	<0.35		0.35	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
4-Chloroaniline	<0.71		0.71	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,4,6-Trichlorophenol	<0.35		0.35	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,4,5-Trichlorophenol	<0.35		0.35	0.10	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Hexachlorocyclopentadiene	<0.71		0.71	0.16	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2-Methylnaphthalene	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2-Nitroaniline	<0.18		0.18	0.063	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
4-Chloro-3-methylphenol	<0.35		0.35	0.17	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,6-Dinitrotoluene	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2-Nitrophenol	<0.35		0.35	0.055	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
3-Nitroaniline	<0.35		0.35	0.068	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Dimethyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,4-Dinitrophenol	<0.71		0.71	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Acenaphthylene	<0.035		0.035	0.0081	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
2,4-Dinitrotoluene	<0.18		0.18	0.054	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Acenaphthene	<0.035		0.035	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
4-Nitrophenol	<0.71		0.71	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Fluorene	<0.035		0.035	0.0080	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
4-Nitroaniline	<0.35		0.35	0.072	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Hexachlorobenzene	<0.071		0.071	0.0069	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Pentachlorophenol	<0.71		0.71	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
N-Nitrosodiphenylamine	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
4,6-Dinitro-2-methylphenol	<0.35		0.35	0.085	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Phenanthrene	<0.035		0.035	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Anthracene	<0.035		0.035	0.0083	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Carbazole	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Di-n-butyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Fluoranthene	<0.035		0.035	0.014	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Pyrene	<0.035		0.035	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Butyl benzyl phthalate	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Benzo[a]anthracene	<0.035		0.035	0.0074	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Chrysene	<0.035		0.035	0.0079	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-1**

**Lab Sample ID: 500-52233-5**

Date Collected: 11/09/12 08:55

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 91.5

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Di-n-octyl phthalate	<0.18		0.18	0.071	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Benzo[b]fluoranthene	<0.035		0.035	0.0068	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Benzo[k]fluoranthene	<0.035		0.035	0.0084	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Benzo[a]pyrene	<0.035		0.035	0.0064	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0098	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
Benzo[g,h,i]perylene	<0.035		0.035	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1
3 & 4 Methylphenol	<0.18		0.18	0.067	mg/Kg	☼	11/20/12 07:10	12/03/12 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		30 - 110	11/20/12 07:10	12/03/12 14:46	1
Phenol-d5	71		31 - 110	11/20/12 07:10	12/03/12 14:46	1
Nitrobenzene-d5	79		30 - 115	11/20/12 07:10	12/03/12 14:46	1
2-Fluorobiphenyl	83		30 - 119	11/20/12 07:10	12/03/12 14:46	1
2,4,6-Tribromophenol	95		35 - 137	11/20/12 07:10	12/03/12 14:46	1
Terphenyl-d14	77		36 - 134	11/20/12 07:10	12/03/12 14:46	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Arsenic	5.4		0.51	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Barium	23	B	0.51	0.061	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Beryllium	0.50		0.20	0.015	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Boron	1.9	J	2.6	0.48	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Cadmium	0.14		0.10	0.025	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Calcium	1100	B	10	1.8	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Chromium	11		0.51	0.085	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Cobalt	6.0		0.26	0.027	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Copper	13		0.51	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Iron	13000		10	4.4	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Lead	15		0.26	0.088	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Magnesium	2200	B	5.1	0.99	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Manganese	91		0.51	0.072	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Nickel	11		0.51	0.11	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Potassium	670	B	26	2.9	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Selenium	<0.51		0.51	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Sodium	77	B	51	9.4	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Thallium	<0.51		0.51	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Vanadium	16		0.26	0.039	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1
Zinc	27	B	1.0	0.35	mg/Kg	☼	11/12/12 16:30	11/19/12 12:15	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 03:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 03:31	1
Boron	1.8		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 03:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 03:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-1**

**Lab Sample ID: 500-52233-5**

Date Collected: 11/09/12 08:55

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:31	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:31	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:31	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 03:31	1
<b>Lead</b>	<b>0.0070</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 03:31	1
<b>Manganese</b>	<b>0.087</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:31	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:31	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 03:31	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:31	1
<b>Zinc</b>	<b>0.029</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 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		11/19/12 08:00	11/26/12 14:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:41	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000081</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:10	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0081</b>	<b>J</b>	0.017	0.0065	mg/Kg	☆	11/20/12 19:00	11/21/12 10:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.05</b>		0.200	0.200	SU			11/15/12 08:12	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-2**

**Lab Sample ID: 500-52233-6**

Date Collected: 11/09/12 09:00

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 80.1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0062		0.0062	0.0027	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Benzene	<0.0062		0.0062	0.00085	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Bromodichloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Bromoform	<0.0062		0.0062	0.0014	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Bromomethane	<0.0062		0.0062	0.0019	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
2-Butanone (MEK)	<0.0062		0.0062	0.0022	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Carbon disulfide	<0.0062		0.0062	0.00092	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Carbon tetrachloride	<0.0062		0.0062	0.0011	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Chlorobenzene	<0.0062		0.0062	0.00063	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Chloroethane	<0.0062	*	0.0062	0.0017	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Chloroform	<0.0062		0.0062	0.00071	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Chloromethane	<0.0062		0.0062	0.0013	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
cis-1,2-Dichloroethene	<0.0062		0.0062	0.00087	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
cis-1,3-Dichloropropene	<0.0062		0.0062	0.00081	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Dibromochloromethane	<0.0062		0.0062	0.0011	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,1-Dichloroethane	<0.0062		0.0062	0.00098	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,2-Dichloroethane	<0.0062		0.0062	0.00092	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,1-Dichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,2-Dichloropropane	<0.0062		0.0062	0.00094	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,3-Dichloropropene, Total	<0.0062		0.0062	0.00081	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Ethylbenzene	<0.0062		0.0062	0.0012	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
2-Hexanone	<0.0062		0.0062	0.0018	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Methylene Chloride	<0.0062		0.0062	0.0017	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
4-Methyl-2-pentanone (MIBK)	<0.0062		0.0062	0.0016	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Methyl tert-butyl ether	<0.0062		0.0062	0.0010	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Styrene	<0.0062		0.0062	0.00081	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,1,2,2-Tetrachloroethane	<0.0062		0.0062	0.0012	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Tetrachloroethene	<0.0062		0.0062	0.00095	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Toluene	<0.0062		0.0062	0.00087	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
trans-1,2-Dichloroethene	<0.0062		0.0062	0.00085	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
trans-1,3-Dichloropropene	<0.0062		0.0062	0.0011	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,1,1-Trichloroethane	<0.0062		0.0062	0.00092	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
1,1,2-Trichloroethane	<0.0062		0.0062	0.00084	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Trichloroethene	<0.0062		0.0062	0.0010	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Vinyl chloride	<0.0062		0.0062	0.0013	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1
Xylenes, Total	<0.012		0.012	0.00056	mg/Kg	☼	11/09/12 09:00	11/15/12 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/09/12 09:00	11/15/12 17:08	1
Dibromofluoromethane	87		73 - 122	11/09/12 09:00	11/15/12 17:08	1
1,2-Dichloroethane-d4 (Surr)	93		74 - 123	11/09/12 09:00	11/15/12 17:08	1
Toluene-d8 (Surr)	108		72 - 122	11/09/12 09:00	11/15/12 17:08	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.063	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
1,2-Dichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-2**

**Lab Sample ID: 500-52233-6**

Date Collected: 11/09/12 09:00

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 80.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.20		0.20	0.053	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.044	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
N-Nitrosodi-n-propylamine	<0.20		0.20	0.050	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Hexachloroethane	<0.20		0.20	0.042	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2-Chlorophenol	<0.20		0.20	0.057	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Nitrobenzene	<0.039		0.039	0.012	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.044	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.045	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Isophorone	<0.20		0.20	0.044	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,4-Dimethylphenol	<0.39		0.39	0.12	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Hexachlorobutadiene	<0.20		0.20	0.052	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Naphthalene	<0.039		0.039	0.0077	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,4-Dichlorophenol	<0.39		0.39	0.12	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
4-Chloroaniline	<0.80		0.80	0.12	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,4,6-Trichlorophenol	<0.39		0.39	0.050	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,4,5-Trichlorophenol	<0.39		0.39	0.11	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Hexachlorocyclopentadiene	<0.80		0.80	0.18	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2-Methylnaphthalene	<0.20		0.20	0.052	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2-Nitroaniline	<0.20		0.20	0.072	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
4-Chloro-3-methylphenol	<0.39		0.39	0.19	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.047	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2-Nitrophenol	<0.39		0.39	0.062	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
3-Nitroaniline	<0.39		0.39	0.077	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Dimethyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,4-Dinitrophenol	<0.80		0.80	0.20	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Acenaphthylene	<0.039		0.039	0.0091	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.061	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Acenaphthene	<0.039		0.039	0.012	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
4-Nitrophenol	<0.80		0.80	0.21	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Fluorene	<0.039		0.039	0.0090	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
4-Nitroaniline	<0.39		0.39	0.081	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.044	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Hexachlorobenzene	<0.080		0.080	0.0078	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.063	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Pentachlorophenol	<0.80		0.80	0.20	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.054	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
4,6-Dinitro-2-methylphenol	<0.39		0.39	0.096	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Phenanthrene	<0.039		0.039	0.017	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Anthracene	<0.039		0.039	0.0093	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Carbazole	<0.20		0.20	0.056	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Di-n-butyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Fluoranthene	<0.039		0.039	0.016	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Pyrene	<0.039		0.039	0.014	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Butyl benzyl phthalate	<0.20		0.20	0.050	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Benzo[a]anthracene	<0.039		0.039	0.0083	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1
Chrysene	<0.039		0.039	0.0090	mg/Kg	*	11/20/12 07:10	12/03/12 15:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-2**

**Lab Sample ID: 500-52233-6**

Date Collected: 11/09/12 09:00

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 80.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.20		0.20	0.033	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.053	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Di-n-octyl phthalate	<0.20		0.20	0.081	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Benzo[b]fluoranthene	<0.039		0.039	0.0077	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Benzo[k]fluoranthene	<0.039		0.039	0.0095	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Benzo[a]pyrene	<0.039		0.039	0.0072	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Dibenz(a,h)anthracene	<0.039		0.039	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
3 & 4 Methylphenol	<0.20		0.20	0.075	mg/Kg	☼	11/20/12 07:10	12/03/12 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110				11/20/12 07:10	12/03/12 15:10	1
Phenol-d5	73		31 - 110				11/20/12 07:10	12/03/12 15:10	1
Nitrobenzene-d5	75		30 - 115				11/20/12 07:10	12/03/12 15:10	1
2-Fluorobiphenyl	84		30 - 119				11/20/12 07:10	12/03/12 15:10	1
2,4,6-Tribromophenol	81		35 - 137				11/20/12 07:10	12/03/12 15:10	1
Terphenyl-d14	85		36 - 134				11/20/12 07:10	12/03/12 15:10	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.16	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Arsenic</b>	<b>4.0</b>		0.59	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Barium</b>	<b>36 B</b>		0.59	0.071	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Beryllium</b>	<b>0.48</b>		0.24	0.017	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Boron</b>	<b>3.5</b>		3.0	0.55	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Cadmium</b>	<b>0.26</b>		0.12	0.029	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Calcium</b>	<b>1700 B</b>		12	2.1	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Chromium</b>	<b>13</b>		0.59	0.099	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Cobalt</b>	<b>9.8</b>		0.30	0.031	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Copper</b>	<b>27</b>		0.59	0.16	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Iron</b>	<b>16000</b>		12	5.2	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Lead</b>	<b>16</b>		0.30	0.10	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Magnesium</b>	<b>2900 B</b>		5.9	1.2	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Manganese</b>	<b>390</b>		0.59	0.084	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Nickel</b>	<b>26</b>		0.59	0.13	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Potassium</b>	<b>1100 B</b>		30	3.4	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
Selenium	<0.59		0.59	0.17	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
Silver	<0.30		0.30	0.036	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Sodium</b>	<b>250 B</b>		59	11	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Thallium</b>	<b>0.44 J</b>		0.59	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Vanadium</b>	<b>14</b>		0.30	0.045	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1
<b>Zinc</b>	<b>45 B</b>		1.2	0.41	mg/Kg	☼	11/12/12 16:30	11/19/12 12:21	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.32 J</b>		0.50	0.010	mg/L		11/19/12 08:00	11/20/12 03:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 03:38	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 03:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 03:38	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B02-2**

**Lab Sample ID: 500-52233-6**

Date Collected: 11/09/12 09:00

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:38	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:38	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:38	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 03:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 03:38	1
<b>Manganese</b>	<b>0.68</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:38	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:38	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 03:38	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:38	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 03:38	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		11/19/12 08:00	11/26/12 14:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:42	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000081</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:12	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.030</b>		0.019	0.0074	mg/Kg	☼	11/20/12 19:00	11/21/12 10:42	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			11/15/12 08:15	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1**

**Lab Sample ID: 500-52233-7**

Date Collected: 11/09/12 09:24

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 89.0

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0042		0.0042	0.0018	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Benzene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Bromodichloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Bromoform	<0.0042		0.0042	0.00097	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Bromomethane	<0.0042		0.0042	0.0013	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Carbon disulfide	<0.0042		0.0042	0.00063	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Carbon tetrachloride	<0.0042		0.0042	0.00077	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Chlorobenzene	<0.0042		0.0042	0.00043	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Chloroethane	<0.0042	*	0.0042	0.0011	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Chloroform	<0.0042		0.0042	0.00048	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Chloromethane	<0.0042		0.0042	0.00089	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00060	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Dibromochloromethane	<0.0042		0.0042	0.00073	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,1-Dichloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,1-Dichloroethene	<0.0042		0.0042	0.00068	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,2-Dichloropropane	<0.0042		0.0042	0.00064	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.00055	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Ethylbenzene	<0.0042		0.0042	0.00085	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
2-Hexanone	<0.0042		0.0042	0.0012	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Methylene Chloride	<0.0042		0.0042	0.0011	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0011	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00070	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Styrene	<0.0042		0.0042	0.00055	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Tetrachloroethene	<0.0042		0.0042	0.00064	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Toluene	<0.0042		0.0042	0.00059	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.00058	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.00076	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00058	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Trichloroethene	<0.0042		0.0042	0.00070	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Vinyl chloride	<0.0042		0.0042	0.00089	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1
Xylenes, Total	<0.0084		0.0084	0.00038	mg/Kg	☼	11/09/12 09:24	11/15/12 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		76 - 120	11/09/12 09:24	11/15/12 17:31	1
Dibromofluoromethane	92		73 - 122	11/09/12 09:24	11/15/12 17:31	1
1,2-Dichloroethane-d4 (Surr)	98		74 - 123	11/09/12 09:24	11/15/12 17:31	1
Toluene-d8 (Surr)	108		72 - 122	11/09/12 09:24	11/15/12 17:31	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1**

**Lab Sample ID: 500-52233-7**

**Date Collected: 11/09/12 09:24**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 89.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Phenanthrene</b>	<b>0.13</b>		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Anthracene</b>	<b>0.022 J</b>		0.036	0.0085	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Fluoranthene</b>	<b>0.35</b>		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Pyrene</b>	<b>0.29</b>		0.036	0.013	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Benzo[a]anthracene</b>	<b>0.16</b>		0.036	0.0076	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Chrysene</b>	<b>0.19</b>		0.036	0.0081	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1**

**Lab Sample ID: 500-52233-7**

Date Collected: 11/09/12 09:24

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 89.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Benzo[b]fluoranthene</b>	<b>0.24</b>		0.036	0.0070	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Benzo[k]fluoranthene</b>	<b>0.087</b>		0.036	0.0086	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Benzo[a]pyrene</b>	<b>0.18</b>		0.036	0.0066	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.13</b>		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Dibenz(a,h)anthracene</b>	<b>0.025</b>	J	0.036	0.010	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
<b>Benzo[g,h,i]perylene</b>	<b>0.17</b>		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/20/12 07:10	12/04/12 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		30 - 110				11/20/12 07:10	12/04/12 16:31	1
Phenol-d5	73		31 - 110				11/20/12 07:10	12/04/12 16:31	1
Nitrobenzene-d5	66		30 - 115				11/20/12 07:10	12/04/12 16:31	1
2-Fluorobiphenyl	70		30 - 119				11/20/12 07:10	12/04/12 16:31	1
2,4,6-Tribromophenol	77		35 - 137				11/20/12 07:10	12/04/12 16:31	1
Terphenyl-d14	78		36 - 134				11/20/12 07:10	12/04/12 16:31	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Arsenic</b>	<b>12</b>		0.54	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Barium</b>	<b>41</b>	B	0.54	0.064	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Beryllium</b>	<b>0.40</b>		0.21	0.016	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Boron</b>	<b>3.4</b>		2.7	0.50	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Cadmium</b>	<b>0.67</b>		0.11	0.026	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Calcium</b>	<b>44000</b>	B	11	1.9	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Chromium</b>	<b>10</b>		0.54	0.089	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Cobalt</b>	<b>7.0</b>		0.27	0.028	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Copper</b>	<b>13</b>		0.54	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Iron</b>	<b>16000</b>		11	4.6	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Lead</b>	<b>20</b>		0.27	0.092	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Magnesium</b>	<b>29000</b>	B	5.4	1.0	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Manganese</b>	<b>270</b>		0.54	0.075	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Nickel</b>	<b>12</b>		0.54	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Potassium</b>	<b>930</b>	B	27	3.0	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
Selenium	<0.54		0.54	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Sodium</b>	<b>280</b>	B	54	9.8	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Vanadium</b>	<b>15</b>		0.27	0.041	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1
<b>Zinc</b>	<b>57</b>	B	1.1	0.37	mg/Kg	☼	11/12/12 16:30	11/19/12 12:28	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.40</b>	J	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 03:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 03:44	1
<b>Boron</b>	<b>1.7</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 03:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 03:44	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1**

**Lab Sample ID: 500-52233-7**

Date Collected: 11/09/12 09:24

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:44	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:44	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:44	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 03:44	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 03:44	1
<b>Manganese</b>	<b>0.99</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:44	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:44	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 03:44	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:44	1
<b>Zinc</b>	<b>0.045</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 03:44	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		11/19/12 08:00	11/26/12 14:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:43	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000074</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:14	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.017</b>	<b>J</b>	0.018	0.0068	mg/Kg	☼	11/20/12 19:00	11/21/12 10:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.64</b>		0.200	0.200	SU			11/15/12 08:18	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-2**

**Lab Sample ID: 500-52233-8**

Date Collected: 11/09/12 09:30

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 88.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0059		0.0055	0.0024	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Benzene	<0.0055		0.0055	0.00075	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Bromodichloromethane	<0.0055		0.0055	0.00094	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Bromoform	<0.0055		0.0055	0.0013	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Bromomethane	<0.0055		0.0055	0.0016	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
2-Butanone (MEK)	<0.0055		0.0055	0.0020	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Carbon disulfide	<0.0055		0.0055	0.00082	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Carbon tetrachloride	<0.0055		0.0055	0.00099	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Chlorobenzene	<0.0055		0.0055	0.00055	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Chloroethane	<0.0055	*	0.0055	0.0015	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Chloroform	<0.0055		0.0055	0.00063	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Chloromethane	<0.0055		0.0055	0.0011	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
cis-1,2-Dichloroethene	<0.0055		0.0055	0.00077	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
cis-1,3-Dichloropropene	<0.0055		0.0055	0.00072	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Dibromochloromethane	<0.0055		0.0055	0.00095	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,1-Dichloroethane	<0.0055		0.0055	0.00086	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,2-Dichloroethane	<0.0055		0.0055	0.00081	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,1-Dichloroethene	<0.0055		0.0055	0.00088	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,2-Dichloropropane	<0.0055		0.0055	0.00083	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,3-Dichloropropene, Total	<0.0055		0.0055	0.00072	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Ethylbenzene	<0.0055		0.0055	0.0011	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
2-Hexanone	<0.0055		0.0055	0.0016	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Methylene Chloride	<0.0055		0.0055	0.0015	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0055		0.0055	0.0014	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Methyl tert-butyl ether	<0.0055		0.0055	0.00090	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Styrene	<0.0055		0.0055	0.00072	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,1,2,2-Tetrachloroethane	<0.0055		0.0055	0.0011	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Tetrachloroethene	<0.0055		0.0055	0.00083	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Toluene	<0.0055		0.0055	0.00076	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
trans-1,2-Dichloroethene	<0.0055		0.0055	0.00075	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
trans-1,3-Dichloropropene	<0.0055		0.0055	0.00098	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,1,1-Trichloroethane	<0.0055		0.0055	0.00082	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
1,1,2-Trichloroethane	<0.0055		0.0055	0.00074	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Trichloroethene	<0.0055		0.0055	0.00090	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Vinyl chloride	<0.0055		0.0055	0.0011	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	11/09/12 09:30	11/15/12 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/09/12 09:30	11/15/12 17:54	1
Dibromofluoromethane	87		73 - 122	11/09/12 09:30	11/15/12 17:54	1
1,2-Dichloroethane-d4 (Surr)	91		74 - 123	11/09/12 09:30	11/15/12 17:54	1
Toluene-d8 (Surr)	105		72 - 122	11/09/12 09:30	11/15/12 17:54	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.058	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
1,4-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-2**

**Lab Sample ID: 500-52233-8**

**Date Collected: 11/09/12 09:30**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 88.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Hexachlorobutadiene	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Naphthalene	<0.036		0.036	0.0071	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,4,6-Trichlorophenol	<0.36		0.36	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2-Methylnaphthalene	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2-Nitroaniline	<0.18		0.18	0.066	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
4-Chloro-3-methylphenol	<0.36		0.36	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,6-Dinitrotoluene	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2-Nitrophenol	<0.36		0.36	0.058	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
3-Nitroaniline	<0.36		0.36	0.071	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Acenaphthylene	<0.036		0.036	0.0084	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Dibenzofuran	<0.18		0.18	0.044	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Fluorene	<0.036		0.036	0.0083	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
4-Nitroaniline	<0.36		0.36	0.075	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Hexachlorobenzene	<0.074		0.074	0.0072	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.058	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
N-Nitrosodiphenylamine	<0.18		0.18	0.050	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.089	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Anthracene	<0.036		0.036	0.0086	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Carbazole	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Fluoranthene	<0.036		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Pyrene	<0.036		0.036	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Butyl benzyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Benzo[a]anthracene	<0.036		0.036	0.0077	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Chrysene	<0.036		0.036	0.0083	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-2**

**Lab Sample ID: 500-52233-8**

Date Collected: 11/09/12 09:30

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 88.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.031	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Di-n-octyl phthalate	<0.18		0.18	0.074	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
<b>Benzo[b]fluoranthene</b>	<b>0.016</b>	<b>J</b>	0.036	0.0071	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Benzo[k]fluoranthene	<0.036		0.036	0.0088	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
<b>Benzo[a]pyrene</b>	<b>0.0097</b>	<b>J</b>	0.036	0.0067	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Dibenz(a,h)anthracene	<0.036		0.036	0.010	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/20/12 07:10	12/03/12 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110	11/20/12 07:10	12/03/12 15:57	1
Phenol-d5	67		31 - 110	11/20/12 07:10	12/03/12 15:57	1
Nitrobenzene-d5	71		30 - 115	11/20/12 07:10	12/03/12 15:57	1
2-Fluorobiphenyl	77		30 - 119	11/20/12 07:10	12/03/12 15:57	1
2,4,6-Tribromophenol	86		35 - 137	11/20/12 07:10	12/03/12 15:57	1
Terphenyl-d14	77		36 - 134	11/20/12 07:10	12/03/12 15:57	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Arsenic</b>	<b>13</b>		0.53	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Barium</b>	<b>18</b>	<b>B</b>	0.53	0.063	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Beryllium</b>	<b>0.51</b>		0.21	0.016	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Boron</b>	<b>2.2</b>	<b>J</b>	2.7	0.49	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Cadmium</b>	<b>0.34</b>		0.11	0.026	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Calcium</b>	<b>12000</b>	<b>B</b>	11	1.9	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Chromium</b>	<b>10</b>		0.53	0.089	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Cobalt</b>	<b>7.1</b>		0.27	0.028	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Copper</b>	<b>10</b>		0.53	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Iron</b>	<b>17000</b>		11	4.6	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Lead</b>	<b>18</b>		0.27	0.091	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Magnesium</b>	<b>8100</b>	<b>B</b>	5.3	1.0	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Manganese</b>	<b>200</b>		0.53	0.075	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Nickel</b>	<b>10</b>		0.53	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Potassium</b>	<b>540</b>	<b>B</b>	27	3.0	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
Selenium	<0.53		0.53	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Sodium</b>	<b>180</b>	<b>B</b>	53	9.7	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
Thallium	<0.53		0.53	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Vanadium</b>	<b>20</b>		0.27	0.040	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1
<b>Zinc</b>	<b>41</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	11/12/12 16:30	11/19/12 12:34	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.23</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 03:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 03:50	1
<b>Boron</b>	<b>1.8</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 03:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 03:50	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-2**

**Lab Sample ID: 500-52233-8**

Date Collected: 11/09/12 09:30

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:50	1
<b>Cobalt</b>	<b>0.081</b>		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:50	1
<b>Copper</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:50	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 03:50	1
<b>Lead</b>	<b>0.0052</b>	<b>J</b>	0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 03:50	1
<b>Manganese</b>	<b>2.1</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:50	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:50	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 03:50	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:50	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		11/19/12 08:00	11/20/12 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		11/19/12 08:00	11/26/12 14:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:44	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000076</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:16	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.010</b>	<b>J</b>	0.017	0.0065	mg/Kg	☼	11/20/12 19:00	11/21/12 10:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.04</b>		0.200	0.200	SU			11/15/12 08:20	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1-DUP**

**Lab Sample ID: 500-52233-9**

Date Collected: 11/09/12 09:34

Matrix: Solid

Date Received: 11/09/12 15:00

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	0.0023	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Benzene	<0.0054		0.0054	0.00073	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Bromodichloromethane	<0.0054		0.0054	0.00092	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
2-Butanone (MEK)	<0.0054		0.0054	0.0019	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Carbon disulfide	<0.0054		0.0054	0.00080	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Carbon tetrachloride	<0.0054		0.0054	0.00097	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Chlorobenzene	<0.0054		0.0054	0.00054	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Chloroethane	<0.0054	*	0.0054	0.0015	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00076	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Dibromochloromethane	<0.0054		0.0054	0.00093	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,1-Dichloroethane	<0.0054		0.0054	0.00085	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,2-Dichloroethane	<0.0054		0.0054	0.00079	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,2-Dichloropropane	<0.0054		0.0054	0.00081	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00070	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
2-Hexanone	<0.0054		0.0054	0.0015	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Methylene Chloride	<0.0054		0.0054	0.0014	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00088	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Styrene	<0.0054		0.0054	0.00070	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Tetrachloroethene	<0.0054		0.0054	0.00082	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Toluene	<0.0054		0.0054	0.00075	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00096	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00080	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00073	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Trichloroethene	<0.0054		0.0054	0.00088	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg	☼	11/09/12 09:34	11/15/12 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/09/12 09:34	11/15/12 18:17	1
Dibromofluoromethane	88		73 - 122	11/09/12 09:34	11/15/12 18:17	1
1,2-Dichloroethane-d4 (Surr)	88		74 - 123	11/09/12 09:34	11/15/12 18:17	1
Toluene-d8 (Surr)	106		72 - 122	11/09/12 09:34	11/15/12 18:17	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
1,2-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1-DUP**

**Lab Sample ID: 500-52233-9**

**Date Collected: 11/09/12 09:34**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 88.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Hexachloroethane	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Naphthalene	<0.036		0.036	0.0069	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2-Nitrophenol	<0.36		0.36	0.056	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
3-Nitroaniline	<0.36		0.36	0.069	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,4-Dinitrophenol	<0.73		0.73	0.18	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Acenaphthylene	<0.036		0.036	0.0083	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
4-Nitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.087	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Phenanthrene</b>	<b>0.056</b>		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Di-n-butyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Fluoranthene</b>	<b>0.14</b>		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Pyrene</b>	<b>0.11</b>		0.036	0.013	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Benzo[a]anthracene</b>	<b>0.057</b>		0.036	0.0075	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Chrysene</b>	<b>0.075</b>		0.036	0.0081	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1-DUP**

**Lab Sample ID: 500-52233-9**

Date Collected: 11/09/12 09:34

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 88.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Benzo[b]fluoranthene</b>	<b>0.086</b>		0.036	0.0070	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Benzo[k]fluoranthene</b>	<b>0.026</b>	<b>J</b>	0.036	0.0086	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Benzo[a]pyrene</b>	<b>0.074</b>		0.036	0.0066	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.052</b>		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Dibenz(a,h)anthracene</b>	<b>0.019</b>	<b>J</b>	0.036	0.010	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
<b>Benzo[g,h,i]perylene</b>	<b>0.068</b>		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
3 & 4 Methylphenol	<0.18		0.18	0.068	mg/Kg	☼	11/20/12 07:10	12/04/12 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		30 - 110				11/20/12 07:10	12/04/12 16:48	1
Phenol-d5	73		31 - 110				11/20/12 07:10	12/04/12 16:48	1
Nitrobenzene-d5	64		30 - 115				11/20/12 07:10	12/04/12 16:48	1
2-Fluorobiphenyl	74		30 - 119				11/20/12 07:10	12/04/12 16:48	1
2,4,6-Tribromophenol	79		35 - 137				11/20/12 07:10	12/04/12 16:48	1
Terphenyl-d14	74		36 - 134				11/20/12 07:10	12/04/12 16:48	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Arsenic</b>	<b>13</b>		0.56	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Barium</b>	<b>26</b>	<b>B</b>	0.56	0.066	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Beryllium</b>	<b>0.29</b>		0.22	0.016	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Boron</b>	<b>3.4</b>		2.8	0.52	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Cadmium</b>	<b>0.64</b>		0.11	0.028	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Calcium</b>	<b>76000</b>	<b>B</b>	110	20	mg/Kg	☼	11/12/12 16:30	11/19/12 15:10	10
<b>Chromium</b>	<b>6.2</b>		0.56	0.093	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Cobalt</b>	<b>7.4</b>		0.28	0.029	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Copper</b>	<b>8.3</b>		0.56	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Iron</b>	<b>12000</b>		11	4.8	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Lead</b>	<b>16</b>		0.28	0.096	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Magnesium</b>	<b>43000</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Manganese</b>	<b>180</b>		0.56	0.079	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Nickel</b>	<b>12</b>		0.56	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Potassium</b>	<b>560</b>	<b>B</b>	28	3.2	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
Silver	<0.28		0.28	0.033	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Sodium</b>	<b>330</b>	<b>B</b>	56	10	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
Thallium	<0.56		0.56	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Vanadium</b>	<b>11</b>		0.28	0.042	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1
<b>Zinc</b>	<b>47</b>	<b>B</b>	1.1	0.38	mg/Kg	☼	11/12/12 16:30	11/19/12 12:55	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 04:30	1
<b>Boron</b>	<b>1.2</b>		0.50	0.050	mg/L		11/19/12 08:00	11/20/12 04:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 04:30	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-25-B01-1-DUP**

**Lab Sample ID: 500-52233-9**

Date Collected: 11/09/12 09:34

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:30	1
<b>Cobalt</b>	<b>0.0065</b>	<b>J</b>	0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 04:30	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:30	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 04:30	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 04:30	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:30	1
Nickel	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 04:30	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 04:30	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 04:30	1
<b>Zinc</b>	<b>0.035</b>	<b>J</b>	0.10	0.020	mg/L		11/19/12 08:00	11/20/12 04:30	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		11/19/12 08:00	11/26/12 14:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:49	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000081</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 10:17	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.0087</b>	<b>J</b>	0.019	0.0071	mg/Kg	☆	11/20/12 19:00	11/21/12 10:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.27</b>		0.200	0.200	SU			11/15/12 08:23	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

## 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
E	Result exceeded calibration range.
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
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	MS or MSD 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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>SL-30</u> Project No.: <u>IDOT2011-053</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: <u>CRM</u>	COC No.: <u>1</u> of <u>2</u> Lab Job No.: <u>500-52233</u> Sample Memo: <u>(3.0) (3.9)</u>
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**Special Instructions:**  
See Table 2 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 <i>Heavy</i>	TCLP/SPLP Metals <i>Heavy</i>	pH	% Solids	Waste Characterization	Comments
1	2034A-27-801	11/9/12	9:02	S	X						X	X	X			0-3'
2	2034A-27-802		7:57													0-3'
3	2034A-25-803-1		8:16													0-4'
4	2034A-25-803-2		8:27													4-8'
5	2034A-25-802-1		4:55													0-4'
6	2034A-25-802-2		9:00													4-8'
7	2034A-25-801-1		9:19													0-4'
8	2034A-25-801-2		9:30													4-8'
9	2034A-25-801-1-DUP		9:34													0-4'
10	2034A-24-804-1		10:11													0-4'
11	2034A-24-804-2		10:16													4-8'
12	2034A-24-805-1		10:48													0-4'

Relinquished by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1330</u>	Received by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1330</u>
Relinquished by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1500</u>	Received by: <i>[Signature]</i>	Date/Time: <u>11/9/12 1500</u>
Relinquished by:	Date/Time:	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: IL 30  
 Project No.: IDOT2011-053  
 TAT:  15 BD  10 BD  5 BD  2 BD  Other

COC No.: 2 of 2  
 Lab Job No: 500-S2233  
 Sample Temp: \_\_\_\_\_

Sampler: CRM

**Special Instructions:**  
 See Table 2 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 / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
13	2031A-24-B03-2	11/9/12	10:33	S	X						X	X	X	X		4-8'
14	2031A-24-B02-1		11:12													0-4'
15	2031A-24-B02-2		11:17													4-8'
16	2031A-24-B01-1		10:43													0-4'
17	2031A-24-B01-2		10:49													4-8'
18	2031A-24-B01-1-DUP		10:53													0-4'
19	2031A-24-B14-1		11:50													0-4'
20	2031A-24-B14-2		11:55													4-8'
21	2031A-25-G01		12:20	W	X						X	X				
22	2031A-25-G01 <del>trip blank</del>		1:15													
Relinquished by: <u>[Signature]</u>					Date/Time	11/9/12	1330	Received by: <u>[Signature]</u>					Date/Time	11/9/12	1330	
Relinquished by: <u>[Signature]</u>					Date/Time	11/9/12	1500	Received by: <u>[Signature]</u>					Date/Time	11/9/12	1500	
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: 500-52178-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 3:51:36 PM

Richard Wright  
Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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results through  
**TotalAccess**

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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 Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-1**

**Lab Sample ID: 500-52178-24**

Date Collected: 11/08/12 14:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0061		0.0061	0.0026	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Benzene	<0.0061		0.0061	0.00084	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Bromodichloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Bromoform	<0.0061		0.0061	0.0014	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Bromomethane	<0.0061		0.0061	0.0018	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
2-Butanone (MEK)	<0.0061		0.0061	0.0022	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Carbon disulfide	<0.0061		0.0061	0.00091	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Carbon tetrachloride	<0.0061		0.0061	0.0011	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Chlorobenzene	<0.0061		0.0061	0.00062	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Chloroethane	<0.0061		0.0061	0.0017	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Chloroform	<0.0061		0.0061	0.00070	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Chloromethane	<0.0061		0.0061	0.0013	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
cis-1,2-Dichloroethene	<0.0061		0.0061	0.00087	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
cis-1,3-Dichloropropene	<0.0061		0.0061	0.00080	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Dibromochloromethane	<0.0061		0.0061	0.0011	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,1-Dichloroethane	<0.0061		0.0061	0.00097	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,2-Dichloroethane	<0.0061		0.0061	0.00091	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,1-Dichloroethene	<0.0061		0.0061	0.00099	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,2-Dichloropropane	<0.0061		0.0061	0.00093	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,3-Dichloropropene, Total	<0.0061		0.0061	0.00080	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Ethylbenzene	<0.0061		0.0061	0.0012	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
2-Hexanone	<0.0061		0.0061	0.0018	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Methylene Chloride	<0.0061		0.0061	0.0017	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
4-Methyl-2-pentanone (MIBK)	<0.0061		0.0061	0.0016	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Methyl tert-butyl ether	<0.0061		0.0061	0.0010	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Styrene	<0.0061		0.0061	0.00080	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,1,1,2-Tetrachloroethane	<0.0061		0.0061	0.0012	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Tetrachloroethene	<0.0061		0.0061	0.00094	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Toluene	<0.0061		0.0061	0.00086	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
trans-1,2-Dichloroethene	<0.0061		0.0061	0.00084	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
trans-1,3-Dichloropropene	<0.0061		0.0061	0.0011	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,1,1-Trichloroethane	<0.0061		0.0061	0.00091	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
1,1,2-Trichloroethane	<0.0061		0.0061	0.00083	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Trichloroethene	<0.0061		0.0061	0.0010	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Vinyl chloride	<0.0061		0.0061	0.0013	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1
Xylenes, Total	<0.012		0.012	0.00055	mg/Kg	☼	11/08/12 14:05	11/15/12 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		76 - 120	11/08/12 14:05	11/15/12 20:26	1
Dibromofluoromethane	105		73 - 122	11/08/12 14:05	11/15/12 20:26	1
1,2-Dichloroethane-d4 (Surr)	102		74 - 123	11/08/12 14:05	11/15/12 20:26	1
Toluene-d8 (Surr)	99		72 - 122	11/08/12 14:05	11/15/12 20:26	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.97		0.97	0.31	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
Bis(2-chloroethyl)ether	<0.97		0.97	0.29	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
1,3-Dichlorobenzene	<0.97		0.97	0.20	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
1,4-Dichlorobenzene	<0.97		0.97	0.20	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
1,2-Dichlorobenzene	<0.97		0.97	0.21	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5

TestAmerica Chicago



# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-1**

**Lab Sample ID: 500-52178-24**

Date Collected: 11/08/12 14:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.97		0.97	0.26	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,2'-oxybis[1-chloropropane]	<0.97		0.97	0.21	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
N-Nitrosodi-n-propylamine	<0.97		0.97	0.24	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Hexachloroethane	<0.97		0.97	0.21	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2-Chlorophenol	<0.97		0.97	0.28	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Nitrobenzene	<0.19		0.19	0.060	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Bis(2-chloroethoxy)methane	<0.97		0.97	0.21	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
1,2,4-Trichlorobenzene	<0.97		0.97	0.22	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Isophorone	<0.97		0.97	0.21	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,4-Dimethylphenol	<1.9		1.9	0.60	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Hexachlorobutadiene	<0.97		0.97	0.25	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Naphthalene	<0.19		0.19	0.037	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,4-Dichlorophenol	<1.9		1.9	0.59	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
4-Chloroaniline	<3.9		3.9	0.59	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,4,6-Trichlorophenol	<1.9		1.9	0.24	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,4,5-Trichlorophenol	<1.9		1.9	0.55	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Hexachlorocyclopentadiene	<3.9		3.9	0.89	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2-Methylnaphthalene	<0.97		0.97	0.25	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2-Nitroaniline	<0.97		0.97	0.35	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2-Chloronaphthalene	<0.97		0.97	0.22	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
4-Chloro-3-methylphenol	<1.9		1.9	0.92	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,6-Dinitrotoluene	<0.97		0.97	0.23	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2-Nitrophenol	<1.9		1.9	0.30	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
3-Nitroaniline	<1.9		1.9	0.37	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Dimethyl phthalate	<0.97		0.97	0.24	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,4-Dinitrophenol	<3.9		3.9	0.99	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Acenaphthylene	<0.19		0.19	0.044	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
2,4-Dinitrotoluene	<0.97		0.97	0.30	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Acenaphthene	<0.19		0.19	0.058	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Dibenzofuran	<0.97		0.97	0.23	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
4-Nitrophenol	<3.9		3.9	1.0	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Fluorene	<0.19		0.19	0.044	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
4-Nitroaniline	<1.9		1.9	0.40	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
4-Bromophenyl phenyl ether	<0.97		0.97	0.22	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Hexachlorobenzene	<0.39		0.39	0.038	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Diethyl phthalate	<0.97		0.97	0.32	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
4-Chlorophenyl phenyl ether	<0.97		0.97	0.30	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Pentachlorophenol	<3.9		3.9	0.98	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
N-Nitrosodiphenylamine	<0.97		0.97	0.26	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
4,6-Dinitro-2-methylphenol	<1.9		1.9	0.47	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
<b>Phenanthrene</b>	<b>0.48</b>		0.19	0.081	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
<b>Anthracene</b>	<b>0.10 J</b>		0.19	0.045	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Carbazole	<0.97		0.97	0.27	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Di-n-butyl phthalate	<0.97		0.97	0.24	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
<b>Fluoranthene</b>	<b>0.63</b>		0.19	0.079	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
<b>Pyrene</b>	<b>0.53</b>		0.19	0.070	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
Butyl benzyl phthalate	<0.97		0.97	0.24	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
<b>Benzo[a]anthracene</b>	<b>0.34</b>		0.19	0.040	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5
<b>Chrysene</b>	<b>0.33</b>		0.19	0.044	mg/Kg	*	11/19/12 17:01	11/30/12 00:27	5

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-1**

**Lab Sample ID: 500-52178-24**

Date Collected: 11/08/12 14:05

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.97		0.97	0.16	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
Bis(2-ethylhexyl) phthalate	<0.97		0.97	0.26	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
Di-n-octyl phthalate	<0.97		0.97	0.39	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
<b>Benzo[b]fluoranthene</b>	<b>0.48</b>		0.19	0.037	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
<b>Benzo[k]fluoranthene</b>	<b>0.18</b>	J	0.19	0.046	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
<b>Benzo[a]pyrene</b>	<b>0.31</b>		0.19	0.035	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.21</b>		0.19	0.065	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
Dibenz(a,h)anthracene	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
<b>Benzo[g,h,i]perylene</b>	<b>0.23</b>		0.19	0.065	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
3 & 4 Methylphenol	<0.97		0.97	0.36	mg/Kg	☼	11/19/12 17:01	11/30/12 00:27	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		30 - 110				11/19/12 17:01	11/30/12 00:27	5
Phenol-d5	85		31 - 110				11/19/12 17:01	11/30/12 00:27	5
Nitrobenzene-d5	74		30 - 115				11/19/12 17:01	11/30/12 00:27	5
2-Fluorobiphenyl	87		30 - 119				11/19/12 17:01	11/30/12 00:27	5
2,4,6-Tribromophenol	100		35 - 137				11/19/12 17:01	11/30/12 00:27	5
Terphenyl-d14	93		36 - 134				11/19/12 17:01	11/30/12 00:27	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Arsenic</b>	<b>7.5</b>		0.57	0.12	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Barium</b>	<b>33</b>		0.57	0.067	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.017	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Boron</b>	<b>3.2</b>		2.8	0.53	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
Cadmium	<0.11		0.11	0.028	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Calcium</b>	<b>6600</b>	B	11	2.0	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Chromium</b>	<b>9.0</b>		0.57	0.095	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Cobalt</b>	<b>3.6</b>		0.28	0.030	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Copper</b>	<b>14</b>		0.57	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Iron</b>	<b>13000</b>		11	4.9	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Lead</b>	<b>26</b>	B	0.28	0.097	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Magnesium</b>	<b>3500</b>		5.7	1.1	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Manganese</b>	<b>230</b>		0.57	0.080	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Nickel</b>	<b>9.8</b>		0.57	0.12	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Potassium</b>	<b>550</b>		28	3.2	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Selenium</b>	<b>0.20</b>	J	0.57	0.16	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Sodium</b>	<b>260</b>	B	57	10	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
Thallium	<0.57		0.57	0.15	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Vanadium</b>	<b>16</b>		0.28	0.043	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1
<b>Zinc</b>	<b>30</b>		1.1	0.39	mg/Kg	☼	11/10/12 10:13	11/14/12 08:01	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.33</b>	J	0.50	0.010	mg/L		11/16/12 09:55	11/16/12 17:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 09:55	11/16/12 17:48	1
<b>Boron</b>	<b>0.083</b>	J	0.50	0.050	mg/L		11/16/12 09:55	11/16/12 17:48	1
<b>Cadmium</b>	<b>0.0022</b>	J	0.0050	0.0020	mg/L		11/16/12 09:55	11/16/12 17:48	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-1**

**Lab Sample ID: 500-52178-24**

Date Collected: 11/08/12 14:05

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:48	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:48	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:48	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 09:55	11/16/12 17:48	1
<b>Lead</b>	<b>0.0074</b>	<b>J B</b>	0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 17:48	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:48	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:48	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 09:55	11/16/12 17:48	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:48	1
<b>Zinc</b>	<b>0.046</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 09:55	11/16/12 17:48	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		11/16/12 09:55	11/26/12 13:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 09:55	11/26/12 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		11/16/12 13:30	11/19/12 11:12	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.021</b>		0.018	0.0067	mg/Kg	☼	11/16/12 15:00	11/19/12 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.07</b>		0.200	0.200	SU			11/14/12 09:38	1

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-2**

**Lab Sample ID: 500-52178-25**

Date Collected: 11/08/12 14:10

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.4

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0061		0.0057	0.0025	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Benzene	<0.0057		0.0057	0.00078	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Bromodichloromethane	<0.0057		0.0057	0.00098	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Bromoform	<0.0057		0.0057	0.0013	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Bromomethane	<0.0057		0.0057	0.0017	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
2-Butanone (MEK)	<0.0057		0.0057	0.0021	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Carbon disulfide	<0.0057		0.0057	0.00085	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Carbon tetrachloride	<0.0057		0.0057	0.0010	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Chlorobenzene	<0.0057		0.0057	0.00058	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Chloroethane	<0.0057		0.0057	0.0015	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Chloroform	<0.0057		0.0057	0.00065	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Chloromethane	<0.0057		0.0057	0.0012	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
cis-1,2-Dichloroethene	<0.0057		0.0057	0.00080	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
cis-1,3-Dichloropropene	<0.0057		0.0057	0.00075	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Dibromochloromethane	<0.0057		0.0057	0.00099	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,1-Dichloroethane	<0.0057		0.0057	0.00090	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,2-Dichloroethane	<0.0057		0.0057	0.00084	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,1-Dichloroethene	<0.0057		0.0057	0.00092	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,2-Dichloropropane	<0.0057		0.0057	0.00086	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,3-Dichloropropene, Total	<0.0057		0.0057	0.00075	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Ethylbenzene	<0.0057		0.0057	0.0011	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
2-Hexanone	<0.0057		0.0057	0.0016	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Methylene Chloride	<0.0057		0.0057	0.0015	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0015	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Methyl tert-butyl ether	<0.0057		0.0057	0.00094	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Styrene	<0.0057		0.0057	0.00075	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,1,1,2-Tetrachloroethane	<0.0057		0.0057	0.0011	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Tetrachloroethene	<0.0057		0.0057	0.00087	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Toluene	<0.0057		0.0057	0.00080	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
trans-1,2-Dichloroethene	<0.0057		0.0057	0.00078	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
trans-1,3-Dichloropropene	<0.0057		0.0057	0.0010	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,1,1-Trichloroethane	<0.0057		0.0057	0.00085	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
1,1,2-Trichloroethane	<0.0057		0.0057	0.00078	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Trichloroethene	<0.0057		0.0057	0.00094	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Vinyl chloride	<0.0057		0.0057	0.0012	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1
Xylenes, Total	<0.011		0.011	0.00052	mg/Kg	☼	11/08/12 14:10	11/15/12 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		76 - 120	11/08/12 14:10	11/15/12 20:49	1
Dibromofluoromethane	99		73 - 122	11/08/12 14:10	11/15/12 20:49	1
1,2-Dichloroethane-d4 (Surr)	95		74 - 123	11/08/12 14:10	11/15/12 20:49	1
Toluene-d8 (Surr)	98		72 - 122	11/08/12 14:10	11/15/12 20:49	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-2**

**Lab Sample ID: 500-52178-25**

**Date Collected: 11/08/12 14:10**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 85.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Hexachloroethane	<0.19		0.19	0.041	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2-Chlorophenol	<0.19		0.19	0.055	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,4-Dimethylphenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Hexachlorobutadiene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Naphthalene	<0.038		0.038	0.0074	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,4-Dichlorophenol	<0.38		0.38	0.12	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
4-Chloroaniline	<0.78		0.78	0.12	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.048	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.11	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.18	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2-Methylnaphthalene	<0.19		0.19	0.050	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2-Nitroaniline	<0.19		0.19	0.069	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.18	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2-Nitrophenol	<0.38		0.38	0.060	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
3-Nitroaniline	<0.38		0.38	0.074	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,4-Dinitrophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Acenaphthylene	<0.038		0.038	0.0089	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Acenaphthene	<0.038		0.038	0.012	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Dibenzofuran	<0.19		0.19	0.046	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
4-Nitrophenol	<0.78		0.78	0.21	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Fluorene	<0.038		0.038	0.0088	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
4-Nitroaniline	<0.38		0.38	0.079	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Hexachlorobenzene	<0.078		0.078	0.0076	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.061	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Pentachlorophenol	<0.78		0.78	0.20	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.052	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.094	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Phenanthrene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Anthracene	<0.038		0.038	0.0091	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Carbazole	<0.19		0.19	0.054	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Di-n-butyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Fluoranthene	<0.038		0.038	0.016	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Pyrene	<0.038		0.038	0.014	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Butyl benzyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Benzo[a]anthracene	<0.038		0.038	0.0081	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Chrysene	<0.038		0.038	0.0087	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-2**

**Lab Sample ID: 500-52178-25**

Date Collected: 11/08/12 14:10

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 85.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.032	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.051	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Di-n-octyl phthalate	<0.19		0.19	0.078	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0075	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.0092	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Benzo[a]pyrene	<0.038		0.038	0.0070	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.011	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.013	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
3 & 4 Methylphenol	<0.19		0.19	0.073	mg/Kg	☼	11/19/12 17:01	11/30/12 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		30 - 110				11/19/12 17:01	11/30/12 13:28	1
Phenol-d5	65		31 - 110				11/19/12 17:01	11/30/12 13:28	1
Nitrobenzene-d5	64		30 - 115				11/19/12 17:01	11/30/12 13:28	1
2-Fluorobiphenyl	68		30 - 119				11/19/12 17:01	11/30/12 13:28	1
2,4,6-Tribromophenol	77		35 - 137				11/19/12 17:01	11/30/12 13:28	1
Terphenyl-d14	86		36 - 134				11/19/12 17:01	11/30/12 13:28	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.14	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Arsenic</b>	<b>6.4</b>		0.54	0.12	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Barium</b>	<b>18</b>		0.54	0.064	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Beryllium</b>	<b>0.44</b>		0.22	0.016	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Boron</b>	<b>3.5</b>		2.7	0.50	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
Cadmium	<0.11		0.11	0.027	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Calcium</b>	<b>1500 B</b>		11	1.9	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Chromium</b>	<b>8.2</b>		0.54	0.090	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Cobalt</b>	<b>6.6</b>		0.27	0.028	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Copper</b>	<b>16</b>		0.54	0.15	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Iron</b>	<b>12000</b>		11	4.7	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Lead</b>	<b>14 B</b>		0.27	0.093	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Magnesium</b>	<b>1800</b>		5.4	1.0	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Manganese</b>	<b>350</b>		0.54	0.076	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Nickel</b>	<b>12</b>		0.54	0.12	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Potassium</b>	<b>710</b>		27	3.1	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
Selenium	<0.54		0.54	0.16	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
Silver	<0.27		0.27	0.032	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Sodium</b>	<b>140 B</b>		54	9.9	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
Thallium	<0.54		0.54	0.14	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Vanadium</b>	<b>15</b>		0.27	0.041	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1
<b>Zinc</b>	<b>26</b>		1.1	0.37	mg/Kg	☼	11/10/12 10:43	11/14/12 08:07	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.15 J</b>		0.50	0.010	mg/L		11/16/12 09:55	11/16/12 17:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 09:55	11/16/12 17:53	1
<b>Boron</b>	<b>0.062 J</b>		0.50	0.050	mg/L		11/16/12 09:55	11/16/12 17:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 09:55	11/16/12 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-25-B04-2**

**Lab Sample ID: 500-52178-25**

Date Collected: 11/08/12 14:10

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:53	1
<b>Cobalt</b>	<b>0.025</b>		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:53	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:53	1
Iron	<0.20		0.20	0.20	mg/L		11/16/12 09:55	11/16/12 17:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 09:55	11/16/12 17:53	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:53	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		11/16/12 09:55	11/16/12 17:53	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 09:55	11/16/12 17:53	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 09:55	11/16/12 17:53	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		11/16/12 09:55	11/16/12 17:53	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		11/16/12 09:55	11/26/12 13:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 09:55	11/26/12 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		11/16/12 13:30	11/19/12 11:14	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<b>0.011</b>	<b>J</b>	0.017	0.0066	mg/Kg	☼	11/16/12 15:00	11/19/12 12:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	<b>8.19</b>		0.200	0.200	SU			11/14/12 09:41	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

## 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	RPD of the MS and MSD exceeds the control limits
F	MS or MSD exceeds the control limits
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	Project Name: <u>IL 30</u>	COC No.: <u>4</u> of <u>5</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>IDOT2011-053</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>500-52178</u> Sample Temp:
<b>Special Instructions:</b> See Table 2 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	ANALYSES										Comments
					VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBs	Total Metals /mg	TCLP/SPLP Metals /mg	pH	% Solids	

13	2034A-24-B07-1	11-8-12	12:45	Soil	X	X					X	X	X	X		0-4'
14	2034A-24-B07-2		12:55													4-8'
15	2034A-24-B07-1 Dup		12:55													0-4'
16	2034A-24-B05-1		1:00													0-4'
17	2034A-24-B05-2		1:05													4-8'
18	2034A-26-B01		1:35													0-3'
19	2034A-25-B06-1		1:40													0-4'
20	2034A-25-B06-2		1:45													4-8'
21	2034A-25-B05-1		1:50													0-4'
22	2034A-25-B05-2		1:55													4-8'
23	2034A-25-B05-1 Dup		2:00													0-4'
24	2034A-25-B04-1		2:05													0-4'

Relinquished by:	Date/Time: <u>11/8/12 1511</u>	Received by:	Date/Time: <u>11/8/12 1511</u>
Relinquished by:	Date/Time: <u>11/8/12 1605</u>	Received by:	Date/Time: <u>11/8/12 1605</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:



December 12, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120045

Dear Colleen Grey:

TEKLAB, INC received 11 samples on 12/2/2013 12:20:00 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)



## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120045

**Client Project:** IDOT2011-053

**Report Date:** 12-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	16
Receiving Check List	18
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120045

**Client Project:** IDOT2011-053

**Report Date:** 12-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            |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120045

**Client Project:** IDOT2011-053

**Report Date:** 12-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.  
Client Project: IDOT2011-053  
Lab ID: 13120045-001  
Matrix: SOLID

Work Order: 13120045  
Report Date: 12-Dec-13  
Client Sample ID: 2034A-25-B01-1  
Collection Date: 11/26/2013 15:10

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>0.0239</b>	mg/L	1	12/09/2013 17:05	94382





## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-002

Client Sample ID: 2034A-25-B01-1 DUP

Matrix: SOLID

Collection Date: 11/26/2013 15:10

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>0.0192</b>	mg/L	1	12/09/2013 17:12	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-003

Client Sample ID: 2034A-25-B01-2

Matrix: SOLID

Collection Date: 11/26/2013 15:15

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>0.0161</b>	mg/L	1	12/09/2013 17:16	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-004

Client Sample ID: 2034A-25-B02-1

Matrix: SOLID

Collection Date: 11/26/2013 14:55

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>0.0621</b>	mg/L	1	12/09/2013 17:20	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-005

Client Sample ID: 2034A-25-B02-2

Matrix: SOLID

Collection Date: 11/26/2013 15:00

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	0.016	0.05	J	<b>0.024</b>	mg/L	1	12/12/2013 10:24	94501
<b>SW-846 1312, 3005A, 6010B, METALS IN SPLP EXTRACT BY ICP</b>									
Manganese	NELAP	0.0016	0.005	X	<b>0.185</b>	mg/L	1	12/09/2013 17:23	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-006

Client Sample ID: 2034A-25-B03-1

Matrix: SOLID

Collection Date: 11/26/2013 14:45

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>0.068</b>	mg/L	1	12/09/2013 17:27	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-007

Client Sample ID: 2034A-25-B03-2

Matrix: SOLID

Collection Date: 11/26/2013 14:50

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		0.12	mg/L	1	12/09/2013 17:38	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-008

Client Sample ID: 2034A-25-B04-1

Matrix: SOLID

Collection Date: 11/26/2013 8:15

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>0.0132</b>	mg/L	1	12/09/2013 17:42	94382



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120045

Client Project: IDOT2011-053

Report Date: 12-Dec-13

Lab ID: 13120045-009

Client Sample ID: 2034A-25-B04-2

Matrix: SOLID

Collection Date: 11/26/2013 8:20

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		<b>0.0261</b>	mg/L	1	12/09/2013 17:45	94382







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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
3 Joliet Street

City: Bloom Township/Dyer State: IL Zip Code: 60411

County: Cook Township: Bloom

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.49469 Longitude: -87.52574  
(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 Street

Street Address: 201 West Center Street

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 353 (US Route 30)

Latitude: 41.49469 Longitude: -87.52574

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 2034/A-26-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-26. SEE FIGURE 4 AND TABLE 5v 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: 500-52178. TEKLAB WORK ORDER NO.: 13120046.

**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))***

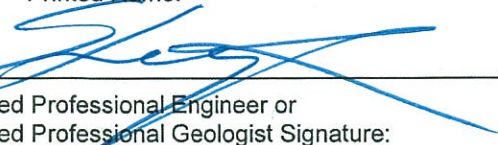
Company Name: IDOT Bureau of Design and Environment

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:

3/17/14  
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
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 2034A-26**

**BP Gasoline**

<b>Sample ID</b>	2034A-26-B01	<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
<b>Sample Depth (ft)</b>	0-3						
<b>Sample Date</b>	11/8/2012						
<b>PID</b>	0						
<b>Sample pH</b>	8.4						
<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: 500-52178-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
11/30/2012 3:51:36 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 Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-26-B01**

**Lab Sample ID: 500-52178-18**

**Date Collected: 11/08/12 13:35**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 89.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0044		0.0044	0.0019	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Benzene	<0.0044		0.0044	0.00060	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Bromodichloromethane	<0.0044		0.0044	0.00076	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Bromoform	<0.0044		0.0044	0.0010	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Bromomethane	<0.0044		0.0044	0.0013	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Carbon disulfide	<0.0044		0.0044	0.00066	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Carbon tetrachloride	<0.0044		0.0044	0.00080	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Chlorobenzene	<0.0044		0.0044	0.00045	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Chloroethane	<0.0044		0.0044	0.0012	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Chloroform	<0.0044		0.0044	0.00051	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Chloromethane	<0.0044		0.0044	0.00092	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Dibromochloromethane	<0.0044		0.0044	0.00077	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,1-Dichloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,1-Dichloroethene	<0.0044		0.0044	0.00071	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,2-Dichloropropane	<0.0044		0.0044	0.00067	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.00058	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Ethylbenzene	<0.0044		0.0044	0.00089	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
2-Hexanone	<0.0044		0.0044	0.0013	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Methylene Chloride	<0.0044		0.0044	0.0012	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0012	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Methyl tert-butyl ether	<0.0044		0.0044	0.00073	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Styrene	<0.0044		0.0044	0.00058	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,1,1,2-Tetrachloroethane	<0.0044		0.0044	0.00089	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Tetrachloroethene	<0.0044		0.0044	0.00067	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Toluene	<0.0044		0.0044	0.00062	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.00061	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.00079	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00060	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Trichloroethene	<0.0044		0.0044	0.00073	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Vinyl chloride	<0.0044		0.0044	0.00092	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1
Xylenes, Total	<0.0088		0.0088	0.00040	mg/Kg	☼	11/08/12 13:35	11/15/12 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		76 - 120	11/08/12 13:35	11/15/12 18:09	1
Dibromofluoromethane	104		73 - 122	11/08/12 13:35	11/15/12 18:09	1
1,2-Dichloroethane-d4 (Surr)	100		74 - 123	11/08/12 13:35	11/15/12 18:09	1
Toluene-d8 (Surr)	103		72 - 122	11/08/12 13:35	11/15/12 18:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.058	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.039	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-26-B01**

**Lab Sample ID: 500-52178-18**

**Date Collected: 11/08/12 13:35**

**Matrix: Solid**

**Date Received: 11/08/12 15:11**

**Percent Solids: 89.4**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.19		0.19	0.049	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Hexachloroethane	<0.19		0.19	0.039	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2-Chlorophenol	<0.19		0.19	0.053	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Nitrobenzene	<0.037		0.037	0.011	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,4-Dimethylphenol	<0.37		0.37	0.12	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Hexachlorobutadiene	<0.19	*	0.19	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Naphthalene	<0.037		0.037	0.0071	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,4-Dichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
4-Chloroaniline	<0.74		0.74	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,4,6-Trichlorophenol	<0.37		0.37	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,4,5-Trichlorophenol	<0.37		0.37	0.11	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Hexachlorocyclopentadiene	<0.74		0.74	0.17	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2-Methylnaphthalene	<0.19		0.19	0.048	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2-Nitroaniline	<0.19		0.19	0.066	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
4-Chloro-3-methylphenol	<0.37		0.37	0.18	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.044	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2-Nitrophenol	<0.37		0.37	0.058	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
3-Nitroaniline	<0.37		0.37	0.071	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Dimethyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,4-Dinitrophenol	<0.74		0.74	0.19	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Acenaphthylene	<0.037		0.037	0.0085	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
2,4-Dinitrotoluene	<0.19	*	0.19	0.057	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Acenaphthene	<0.037		0.037	0.011	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
4-Nitrophenol	<0.74		0.74	0.20	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Fluorene	<0.037		0.037	0.0084	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
4-Nitroaniline	<0.37		0.37	0.076	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.041	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Hexachlorobenzene	<0.074		0.074	0.0073	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.058	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Pentachlorophenol	<0.74		0.74	0.19	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.050	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.090	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Phenanthrene	<0.037		0.037	0.015	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Anthracene	<0.037		0.037	0.0087	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Carbazole	<0.19		0.19	0.052	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Di-n-butyl phthalate	<0.19		0.19	0.047	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Fluoranthene	<0.037		0.037	0.015	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Pyrene	<0.037		0.037	0.013	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Butyl benzyl phthalate	<0.19		0.19	0.046	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Benzo[a]anthracene	<0.037		0.037	0.0077	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Chrysene	<0.037		0.037	0.0083	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-26-B01**

**Lab Sample ID: 500-52178-18**

Date Collected: 11/08/12 13:35

Matrix: Solid

Date Received: 11/08/12 15:11

Percent Solids: 89.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.049	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Di-n-octyl phthalate	<0.19		0.19	0.075	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Benzo[b]fluoranthene	<0.037		0.037	0.0072	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Benzo[k]fluoranthene	<0.037		0.037	0.0088	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Benzo[a]pyrene	<0.037		0.037	0.0067	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.012	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Dibenz(a,h)anthracene	<0.037		0.037	0.010	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1
3 & 4 Methylphenol	<0.19		0.19	0.070	mg/Kg	☼	11/20/12 07:07	11/29/12 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		30 - 110	11/20/12 07:07	11/29/12 22:09	1
Phenol-d5	84		31 - 110	11/20/12 07:07	11/29/12 22:09	1
Nitrobenzene-d5	71		30 - 115	11/20/12 07:07	11/29/12 22:09	1
2-Fluorobiphenyl	81		30 - 119	11/20/12 07:07	11/29/12 22:09	1
2,4,6-Tribromophenol	88		35 - 137	11/20/12 07:07	11/29/12 22:09	1
Terphenyl-d14	99		36 - 134	11/20/12 07:07	11/29/12 22:09	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.14	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Arsenic</b>	<b>3.3</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Barium</b>	<b>29</b>		0.52	0.062	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Beryllium</b>	<b>0.38</b>		0.21	0.015	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Boron</b>	<b>1.4 J</b>		2.6	0.49	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
Cadmium	<0.10		0.10	0.026	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Calcium</b>	<b>1700 B</b>		10	1.8	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Chromium</b>	<b>6.0</b>		0.52	0.087	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Cobalt</b>	<b>3.5</b>		0.26	0.027	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Copper</b>	<b>5.7</b>		0.52	0.14	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Iron</b>	<b>7600</b>		10	4.5	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Lead</b>	<b>6.4 B</b>		0.26	0.090	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Magnesium</b>	<b>1100 B</b>		5.2	1.0	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Manganese</b>	<b>130</b>		0.52	0.074	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Nickel</b>	<b>7.5</b>		0.52	0.11	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Potassium</b>	<b>470 B</b>		26	3.0	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Selenium</b>	<b>0.17 J</b>		0.52	0.15	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
Silver	<0.26		0.26	0.031	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Sodium</b>	<b>280</b>		52	9.6	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
Thallium	<0.52		0.52	0.13	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Vanadium</b>	<b>11</b>		0.26	0.040	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1
<b>Zinc</b>	<b>21 B</b>		1.0	0.36	mg/Kg	☼	11/12/12 16:30	11/17/12 23:14	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.18 J</b>		0.50	0.010	mg/L		11/16/12 15:30	11/18/12 02:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/16/12 15:30	11/18/12 02:24	1
<b>Boron</b>	<b>0.076 J</b>		0.50	0.050	mg/L		11/16/12 15:30	11/18/12 02:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/16/12 15:30	11/18/12 02:24	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

**Client Sample ID: 2034A-26-B01**

**Lab Sample ID: 500-52178-18**

Date Collected: 11/08/12 13:35

Matrix: Solid

Date Received: 11/08/12 15:11

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:24	1
<b>Cobalt</b>	<b>0.016</b>	<b>J</b>	0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 02:24	1
Copper	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:24	1
<b>Iron</b>	<b>0.49</b>		0.20	0.20	mg/L		11/16/12 15:30	11/18/12 02:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		11/16/12 15:30	11/18/12 02:24	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:24	1
Nickel	<0.025		0.025	0.010	mg/L		11/16/12 15:30	11/18/12 02:24	1
Selenium	<0.050		0.050	0.010	mg/L		11/16/12 15:30	11/18/12 02:24	1
Silver	<0.025		0.025	0.0050	mg/L		11/16/12 15:30	11/18/12 02:24	1
Zinc	<0.10		0.10	0.020	mg/L		11/16/12 15:30	11/18/12 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		11/16/12 15:30	11/26/12 13:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/16/12 15:30	11/26/12 13:54	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000032</b>	<b>J</b>	0.00020	0.000020	mg/L		11/19/12 16:00	11/20/12 11:26	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0062	mg/Kg	☆	11/16/12 15:00	11/19/12 13:37	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			11/14/12 09:22	1

# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

## 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	RPD of the MS and MSD exceeds the control limits
F	MS or MSD exceeds the control limits
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52178-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# 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>	Project Name: <u>IL 30</u>	COC No.: <u>4</u> of <u>5</u>
	Address: <b>2417 Bond Street</b> <b>University Park, IL 60484</b>	Project No.: <u>IDOT2011-053</u>	Lab Job No.: <u>500-52178</u>
Phone: <b>708-534-5200</b>	Contact: <b>Dick Wright</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:
email: richard.wright@testamericainc.com	email: <u>richard.wright@testamericainc.com</u>	Sampler: <u>MJN</u>	

**Special Instructions:**  
See Table 2 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 /mg	TCLP/SPLP Metals /mg	pH	% Solids		Waste Characterization
13	2034A-24-B07-1	11-8-12	12:45	Soil	X	X					X	X	X	X		0-4'
14	2034A-24-B07-2		12:55													4-8'
15	2034A-24-B07-1 Dup		12:55													0-4'
16	2034A-24-B05-1		1:00													0-4'
17	2034A-24-B05-2		1:05													4-8'
18	2034A-26-B01		1:35													0-3'
19	2034A-25-B06-1		1:40													0-4'
20	2034A-25-B06-2		1:45													4-8'
21	2034A-25-B05-1		1:50													0-4'
22	2034A-25-B05-2		1:55													4-8'
23	2034A-25-B05-1 Dup		2:00													0-4'
24	2034A-25-B04-1		2:05													0-4'

**Matrix Key:**  
W - Water  
S - Soil  
SL - Sludge  
SE - Sediment  
L - Leachate  
DW - Drinking Water  
OL - Oil  
O - Other

Relinquished by: <i>[Signature]</i>	Date/Time: 11/8/12 10:11	Received by: <i>[Signature]</i>	Date/Time: 11/8/12 1511
Relinquished by: <i>[Signature]</i>	Date/Time: 11/8/12 1605	Received by: <i>[Signature]</i>	Date/Time: 11/8/12 1605
Relinquished by:	Date/Time:	Received by:	Date/Time:

December 10, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120046

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 12/2/2013 12:20:00 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)





## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120046

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	6
Receiving Check List	7
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120046

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120046

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120046

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120046-001

Client Sample ID: 2034A-26-B01

Matrix: SOLID

Collection Date: 11/26/2013 14:30

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>0.0781</b>	mg/L	1	12/06/2013 21:07	94360





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 353 (US Route 30) Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

24 Joliet Street

City: Bloom Township/Dyer State: IL Zip Code: 60411

County: Cook Township: Bloom

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.49436 Longitude: -87.52451

(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 Street

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 Street

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 353 (US Route 30)

Latitude: 41.49436 Longitude: -87.52451

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 2034/A-27-B01 WAS SAMPLED ADJACENT TO ISGS SITE NO. 2034/A-27. SEE FIGURE 4 AND TABLE 5w 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: 500-52233. TEKLAB WORK ORDER NO.: 13120047.

**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:

3/17/14

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
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 2034A-27**

**St. Margaret Mercy Healthcare Center**

<b>Sample ID</b>	2034A-27-B01	<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
<b>Sample Depth (ft)</b>	0-3						
<b>Sample Date</b>	11/9/2012						
<b>PID</b>	0						
<b>Sample pH</b>	7.97						
<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: 500-52233-1  
Client Project/Site: IDOT - US Route 30 - WO 053

For:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, Illinois 62711

Attn: Mike Nelson



Authorized for release by:  
12/5/2012 2:12:06 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 Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-27-B01**

**Lab Sample ID: 500-52233-1**

Date Collected: 11/09/12 08:02

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 87.3

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0052		0.0052	0.0022	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Benzene	<0.0052		0.0052	0.00071	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Bromodichloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Bromoform	<0.0052		0.0052	0.0012	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Bromomethane	<0.0052		0.0052	0.0016	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
2-Butanone (MEK)	<0.0052		0.0052	0.0019	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Carbon disulfide	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Carbon tetrachloride	<0.0052		0.0052	0.00095	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Chlorobenzene	<0.0052		0.0052	0.00053	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Chloroethane	<0.0052	*	0.0052	0.0014	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Chloroform	<0.0052		0.0052	0.00060	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Chloromethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
cis-1,2-Dichloroethene	<0.0052		0.0052	0.00074	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
cis-1,3-Dichloropropene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Dibromochloromethane	<0.0052		0.0052	0.00090	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,1-Dichloroethane	<0.0052		0.0052	0.00082	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,2-Dichloroethane	<0.0052		0.0052	0.00077	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,1-Dichloroethene	<0.0052		0.0052	0.00084	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,2-Dichloropropane	<0.0052		0.0052	0.00079	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,3-Dichloropropene, Total	<0.0052		0.0052	0.00068	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Ethylbenzene	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
2-Hexanone	<0.0052		0.0052	0.0015	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Methylene Chloride	<0.0052		0.0052	0.0014	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0014	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Methyl tert-butyl ether	<0.0052		0.0052	0.00086	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Styrene	<0.0052		0.0052	0.00068	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,1,2,2-Tetrachloroethane	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Tetrachloroethene	<0.0052		0.0052	0.00079	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Toluene	<0.0052		0.0052	0.00073	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
trans-1,2-Dichloroethene	<0.0052		0.0052	0.00072	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
trans-1,3-Dichloropropene	<0.0052		0.0052	0.00093	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,1,1-Trichloroethane	<0.0052		0.0052	0.00078	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
1,1,2-Trichloroethane	<0.0052		0.0052	0.00071	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Trichloroethene	<0.0052		0.0052	0.00086	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Vinyl chloride	<0.0052		0.0052	0.0011	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1
Xylenes, Total	<0.010		0.010	0.00047	mg/Kg	☼	11/09/12 08:02	11/15/12 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 120	11/09/12 08:02	11/15/12 15:12	1
Dibromofluoromethane	89		73 - 122	11/09/12 08:02	11/15/12 15:12	1
1,2-Dichloroethane-d4 (Surr)	89		74 - 123	11/09/12 08:02	11/15/12 15:12	1
Toluene-d8 (Surr)	105		72 - 122	11/09/12 08:02	11/15/12 15:12	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.057	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
1,2-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-27-B01**

**Lab Sample ID: 500-52233-1**

**Date Collected: 11/09/12 08:02**

**Matrix: Solid**

**Date Received: 11/09/12 15:00**

**Percent Solids: 87.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
N-Nitrosodi-n-propylamine	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Hexachloroethane	<0.18		0.18	0.039	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2-Chlorophenol	<0.18		0.18	0.052	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Nitrobenzene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,4-Dimethylphenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Hexachlorobutadiene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Naphthalene	<0.036		0.036	0.0070	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,4-Dichlorophenol	<0.36		0.36	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
4-Chloroaniline	<0.73		0.73	0.11	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,4,6-Trichlorophenol	<0.36		0.36	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,4,5-Trichlorophenol	<0.36		0.36	0.10	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Hexachlorocyclopentadiene	<0.73		0.73	0.17	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2-Methylnaphthalene	<0.18		0.18	0.047	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2-Nitroaniline	<0.18		0.18	0.065	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
4-Chloro-3-methylphenol	<0.36		0.36	0.17	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2-Nitrophenol	<0.36		0.36	0.057	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
3-Nitroaniline	<0.36		0.36	0.070	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Dimethyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,4-Dinitrophenol	<0.73		0.73	0.19	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Acenaphthylene</b>	<b>0.011</b>	<b>J</b>	0.036	0.0083	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Acenaphthene	<0.036		0.036	0.011	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
4-Nitrophenol	<0.73		0.73	0.20	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Fluorene	<0.036		0.036	0.0082	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
4-Nitroaniline	<0.36		0.36	0.074	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.040	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Hexachlorobenzene	<0.073		0.073	0.0071	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.057	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Pentachlorophenol	<0.73		0.73	0.18	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.049	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
4,6-Dinitro-2-methylphenol	<0.36		0.36	0.088	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Phenanthrene	<0.036		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Anthracene	<0.036		0.036	0.0085	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Carbazole	<0.18		0.18	0.051	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Di-n-butyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Fluoranthene</b>	<b>0.056</b>		0.036	0.015	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Pyrene</b>	<b>0.054</b>		0.036	0.013	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Butyl benzyl phthalate	<0.18		0.18	0.045	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Benzo[a]anthracene</b>	<b>0.037</b>		0.036	0.0076	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Chrysene</b>	<b>0.052</b>		0.036	0.0082	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-27-B01**

**Lab Sample ID: 500-52233-1**

Date Collected: 11/09/12 08:02

Matrix: Solid

Date Received: 11/09/12 15:00

Percent Solids: 87.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<0.18		0.18	0.030	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.048	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Di-n-octyl phthalate	<0.18		0.18	0.073	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Benzo[b]fluoranthene</b>	<b>0.088</b>		0.036	0.0070	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Benzo[k]fluoranthene</b>	<b>0.028</b>	J	0.036	0.0086	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Benzo[a]pyrene</b>	<b>0.052</b>		0.036	0.0066	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.044</b>		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Dibenz(a,h)anthracene</b>	<b>0.013</b>	J	0.036	0.010	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
<b>Benzo[g,h,i]perylene</b>	<b>0.051</b>		0.036	0.012	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
3 & 4 Methylphenol	<0.18		0.18	0.069	mg/Kg	☼	11/20/12 07:10	12/03/12 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		30 - 110				11/20/12 07:10	12/03/12 13:10	1
Phenol-d5	67		31 - 110				11/20/12 07:10	12/03/12 13:10	1
Nitrobenzene-d5	75		30 - 115				11/20/12 07:10	12/03/12 13:10	1
2-Fluorobiphenyl	79		30 - 119				11/20/12 07:10	12/03/12 13:10	1
2,4,6-Tribromophenol	95		35 - 137				11/20/12 07:10	12/03/12 13:10	1
Terphenyl-d14	76		36 - 134				11/20/12 07:10	12/03/12 13:10	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.15</b>	J	1.1	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Arsenic</b>	<b>7.9</b>		0.56	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Barium</b>	<b>20</b>	B	0.56	0.067	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Beryllium</b>	<b>0.47</b>		0.23	0.017	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Boron</b>	<b>2.2</b>	J	2.8	0.53	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Cadmium</b>	<b>1.9</b>		0.11	0.028	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Calcium</b>	<b>1200</b>	B	11	2.0	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Chromium</b>	<b>10</b>		0.56	0.094	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Cobalt</b>	<b>5.9</b>		0.28	0.030	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Copper</b>	<b>20</b>		0.56	0.15	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Iron</b>	<b>16000</b>		11	4.9	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Lead</b>	<b>31</b>		0.28	0.097	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Magnesium</b>	<b>1700</b>	B	5.6	1.1	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Manganese</b>	<b>450</b>		5.6	0.80	mg/Kg	☼	11/12/12 16:30	11/19/12 14:25	10
<b>Nickel</b>	<b>18</b>		0.56	0.12	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Potassium</b>	<b>630</b>	B	28	3.2	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
Selenium	<0.56		0.56	0.16	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
Silver	<0.28		0.28	0.034	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Sodium</b>	<b>370</b>	B	56	10	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Thallium</b>	<b>0.22</b>	J	0.56	0.14	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Vanadium</b>	<b>15</b>		0.28	0.043	mg/Kg	☼	11/12/12 16:30	11/19/12 11:11	1
<b>Zinc</b>	<b>2700</b>	B	11	3.9	mg/Kg	☼	11/12/12 16:30	11/19/12 14:25	10

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.12</b>	J	0.50	0.010	mg/L		11/19/12 08:00	11/20/12 03:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/19/12 08:00	11/20/12 03:07	1
<b>Boron</b>	<b>0.051</b>	J	0.50	0.050	mg/L		11/19/12 08:00	11/20/12 03:07	1
<b>Cadmium</b>	<b>0.034</b>		0.0050	0.0020	mg/L		11/19/12 08:00	11/20/12 03:07	1

TestAmerica Chicago

# Client Sample Results

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

**Client Sample ID: 2034A-27-B01**

**Lab Sample ID: 500-52233-1**

Date Collected: 11/09/12 08:02

Matrix: Solid

Date Received: 11/09/12 15:00

**Method: 6010B - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:07	1
Cobalt	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:07	1
Copper	<0.025		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:07	1
Iron	<0.20		0.20	0.20	mg/L		11/19/12 08:00	11/20/12 03:07	1
<b>Lead</b>	<b>0.0088</b>		0.0075	0.0050	mg/L		11/19/12 08:00	11/20/12 03:07	1
<b>Manganese</b>	<b>0.47</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:07	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		11/19/12 08:00	11/20/12 03:07	1
Selenium	<0.050		0.050	0.010	mg/L		11/19/12 08:00	11/20/12 03:07	1
Silver	<0.025		0.025	0.0050	mg/L		11/19/12 08:00	11/20/12 03:07	1
<b>Zinc</b>	<b>53</b>		1.0	0.20	mg/L		11/19/12 08:00	11/20/12 11:05	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		11/19/12 08:00	11/26/12 14:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		11/19/12 08:00	11/26/12 14:36	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000073</b>	<b>J</b>	0.00020	0.000020	mg/L		11/20/12 17:00	11/21/12 09:55	1

**Method: 7471A - Mercury**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0066	mg/Kg	☼	11/20/12 19:00	11/21/12 10:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.97</b>		0.200	0.200	SU			11/15/12 08:00	1



# Definitions/Glossary

Client: Andrews Engineering Inc.  
Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

## 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
E	Result exceeded calibration range.
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
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	MS or MSD 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.

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Andrews Engineering Inc.  
 Project/Site: IDOT - US Route 30 - WO 053

TestAmerica Job ID: 500-52233-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



# CHAIN OF CUSTODY RECORD

<b>Client Contact</b>	<b>Laboratory</b>	<b>Project Name:</b> IL-30	<b>COC No.:</b> 1 of 2
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334	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- 053	Lab Job No.: 500-52233
Contact: Colleen Grey email: cgrey@andrews-eng.com	Phone: 708-534-5200	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 Memo: (3.6) (3.9)
<b>Special Instructions:</b> See Table 2 for complete parameter lists and reporting limit requirements. *If TCLP result exceeds Class I Standard, run SPLP for that specific parameter.	email: richard.wright@testamericainc.com	Sampler: CRM	

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAS	Pesticides	PCBS	Total Metals / Inorg	TCLP/SPLP Metals	pH	% Solids	Waste Characterization	Comments
1	2034A-27-801	11/9/12	9:02	S	X						X	X	X			0-3'
2	2034A-27-802		7:57													0-3'
3	2034A-25-803-1		8:16													0-4'
4	2034A-25-803-2		8:27													4-8'
5	2034A-25-802-1		4:55													0-4'
6	2034A-25-802-2		9:00													4-8'
7	2034A-25-801-1		9:19													0-4'
8	2034A-25-801-2		9:30													4-8'
9	2034A-25-801-1-DUP		9:34													0-4'
10	2034A-24-804-1		10:11													0-4'
11	2034A-24-804-2		10:16													4-8'
12	2034A-24-805-1		10:48													0-4'

Relinquished by: <i>[Signature]</i>	Date/Time: 11/9/12 1330	Received by: <i>[Signature]</i>	Date/Time: 11/9/12 1330
Relinquished by: <i>[Signature]</i>	Date/Time: 11/9/12 1500	Received by: <i>[Signature]</i>	Date/Time: 11/9/12 1500
Relinquished by:	Date/Time:	Received by:	Date/Time:

December 10, 2013

Colleen Grey  
Andrews Engineering, Inc.  
3300 Ginger Creek Drive  
Springfield, IL 62711-7233  
TEL: (217) 787-2334  
FAX: (217) 787-9495



**RE:** IDOT2011-053

**WorkOrder:** 13120047

Dear Colleen Grey:

TEKLAB, INC received 1 sample on 12/2/2013 12:20:00 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)



## Report Contents

<http://www.teklabinc.com/>

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**Client:** Andrews Engineering, Inc.

**Work Order:** 13120047

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

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**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	6
Receiving Check List	7
Chain of Custody	Appended

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120047

**Client Project:** IDOT2011-053

**Report Date:** 10-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            |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Andrews Engineering, Inc.

**Work Order:** 13120047

**Client Project:** IDOT2011-053

**Report Date:** 10-Dec-13

**Cooler Receipt Temp:** 5.0 °C

### Locations and Accreditations

	<u>Collinsville</u>	<u>Springfield</u>	<u>Kansas City</u>	<u>Collinsville Air</u>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	dthompson@teklabinc.com	EHurley@teklabinc.com

<u>State</u>	<u>Dept</u>	<u>Cert #</u>	<u>NELAP</u>	<u>Exp Date</u>	<u>Lab</u>
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2014	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2014	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2014	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		5/31/2015	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		5/31/2015	Collinsville
Oklahoma	ODEQ	9978		8/31/2014	Collinsville



## Laboratory Results

<http://www.teklabinc.com/>

Client: Andrews Engineering, Inc.

Work Order: 13120047

Client Project: IDOT2011-053

Report Date: 10-Dec-13

Lab ID: 13120047-001

Client Sample ID: 2034A-27-B01

Matrix: SOLID

Collection Date: 11/26/2013 14:35

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>0.0346</b>	mg/L	1	12/06/2013 21:10	94360



